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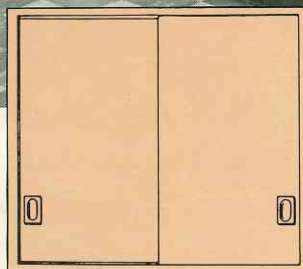
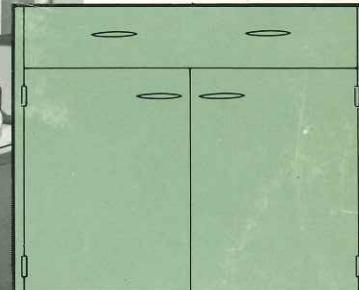
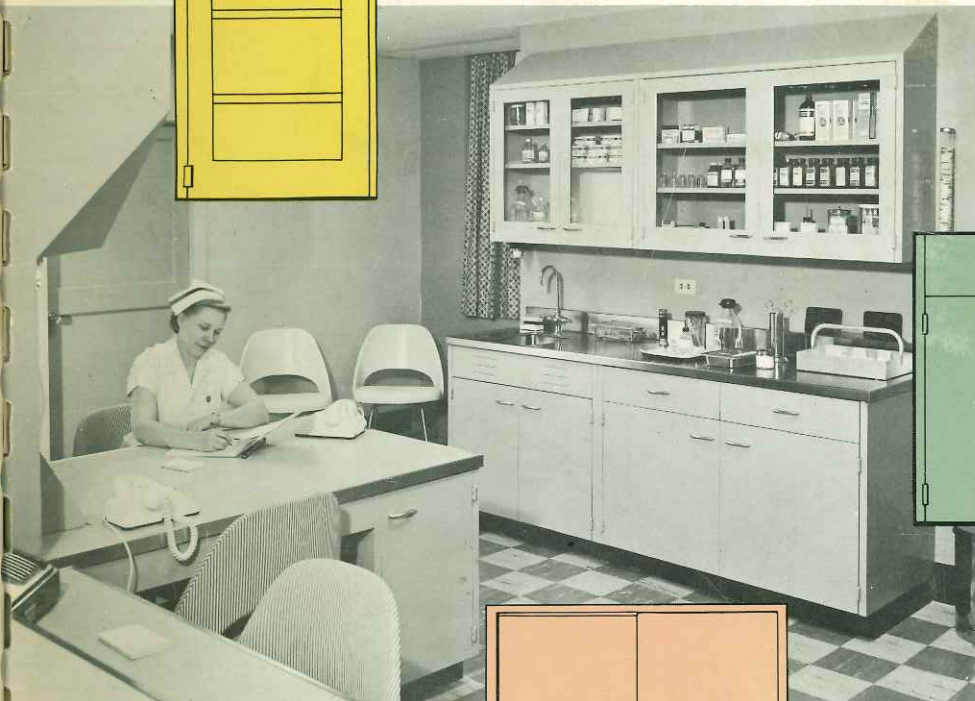
# *St. Charles* **HOSPITAL CASEWORK**

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**ST. CHARLES  
MANUFACTURING  
COMPANY**

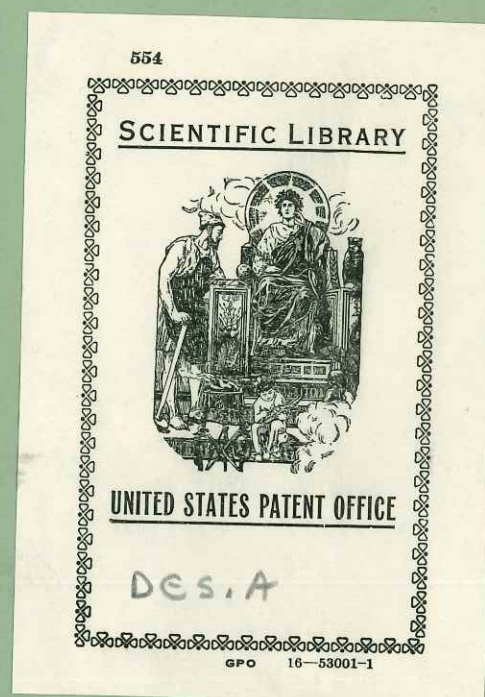


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DESIGN DIV.**

ST. CHARLES HOSPITAL CASEWORK



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*St. Charles*

## HOSPITAL CASEWORK

QUALITY

ECONOMY

FLEXIBILITY

DEPENDABILITY



Des. (A)

Reproduced below is a photograph of a representative St. Charles casework installation. Others will be found at intervals in this catalog.



## St. Charles hospital casework

Since 1935, the St. Charles Manufacturing Company has been engaged in the manufacture of steel storage equipment. Production for hospitals was interrupted by World War II but was resumed immediately thereafter. Many hospitals and laboratories throughout the country are equipped with casework of St. Charles design and manufacture.

In its approach to the hospital field, St. Charles has not been limited by tradition but has applied its technical and productive resources to developing a design and method of manufacture capable of meeting today's requirements. These include (1) maximum use of space, (2) complete flexibility, (3) adequate strength to meet hospital usage, and (4) economy. Units are available in a wide variety of standard dimensions not normally found in hospital casework. This enables economical production yet permits great flexibility in layout to meet the precise needs. All units are made to order, so that units of special dimensions can be furnished where necessary.

St. Charles hospital casework is distributed through a field organization of representatives trained in working with the hospital architect and administrator, and supported by an experienced staff at the main office. When planning a new hospital or an addition to an existing institution, the architect or administrator will find it helpful to call in a St. Charles representative. Working with him from the planning stage will prove beneficial in obtaining the best results from the use of St. Charles equipment.

St. Charles' specialized experience, reputation for quality, and facilities for design and fabrication to meet the need will satisfy the requirements of the architect or administrator.

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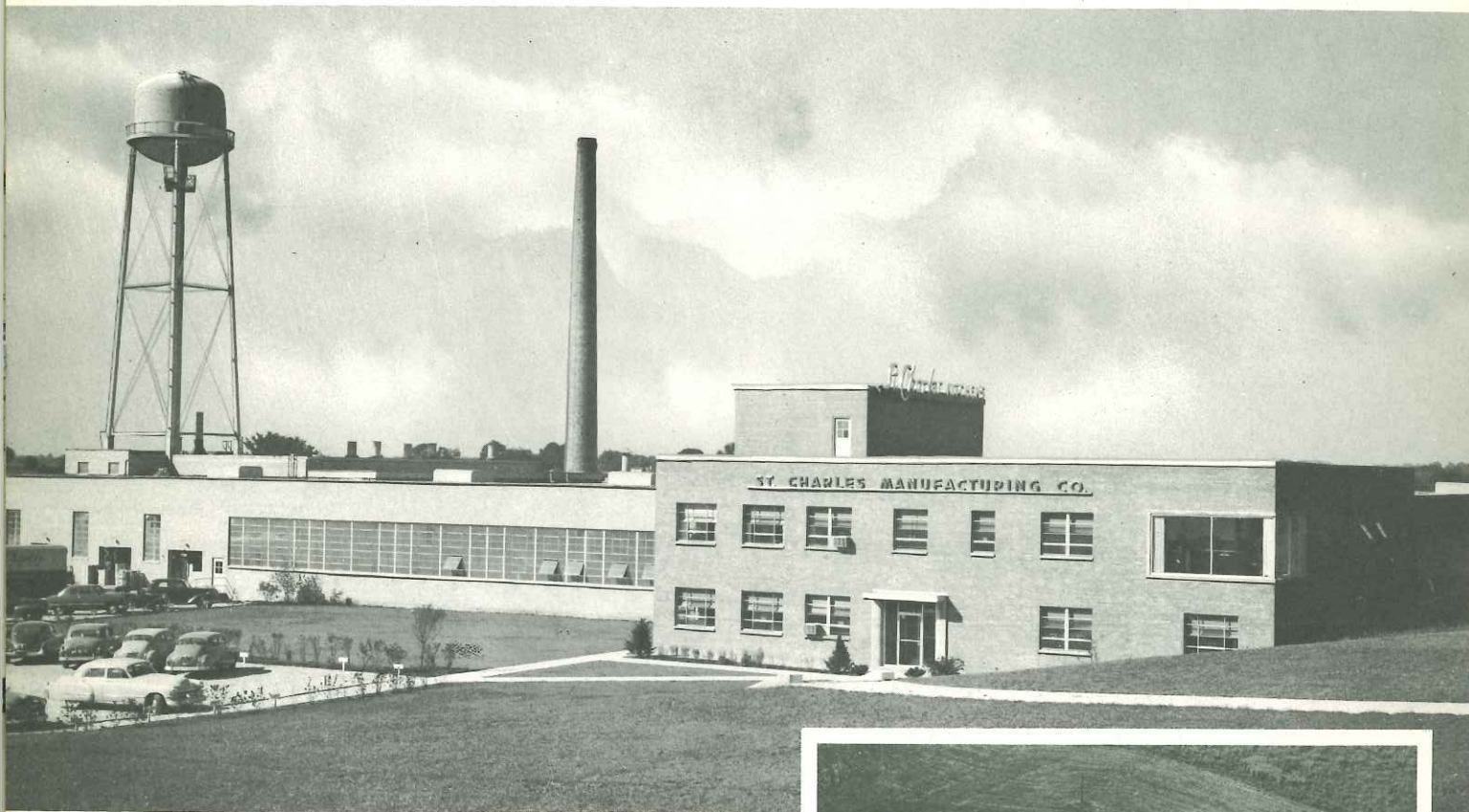
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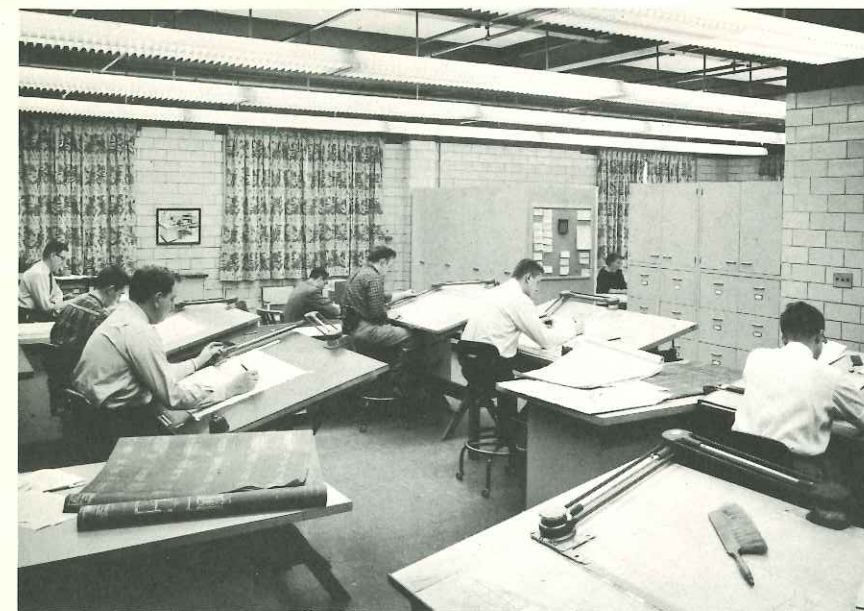


## THE *St. Charles* PLANT

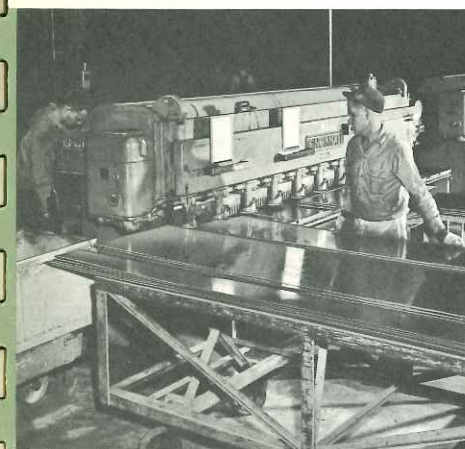
The St. Charles Manufacturing Co. operates two plants in St. Charles, Illinois. Above is a view of the Tyler Road Plant, completed in 1952. Modern in every respect, this building is laid out and equipped especially for the fabrication of steel sheet into storage units, and to enable individual attention to each order through the entire process of manufacture. The structure at present has about 80,000 square feet of space but is so designed to enable efficient expansion as necessary.



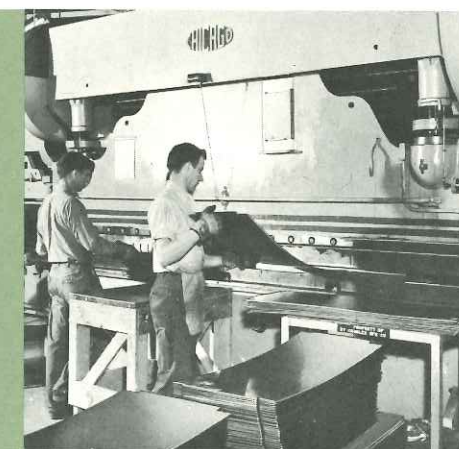
A view of the Dean Street Plant where the Company began operations in 1935. This has been enlarged and modernized several times and is used for various stages of production. It comprises about 50,000 square feet.



**ENGINEERING SERVICE.** The St. Charles engineering staff serves two functions. The services of its trained engineers are available in support of our field organization, for the design and layout of any part or all of a hospital installation, based upon floor plans and room data. In this department every job, large or small, is detailed before production begins.

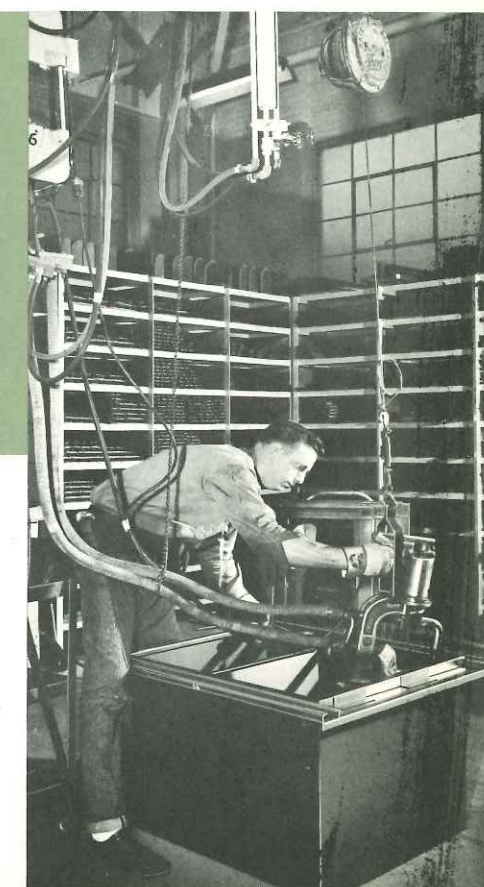


**SHEARING DEPARTMENT.** Here, top grade steel is sheared in accordance with cutting instructions prepared by engineering. These shears are capable of handling sheets of steel up to four feet by 10 feet and up to 10 gauge in thickness. They are equipped with every modern device to insure accuracy.



**FORMING DEPARTMENT.** A battery of brakes forms the sheared steel, producing the formations necessary for fabrication of the units and to give rigidity and strength. Brakes can handle steel up to a thickness of 10 gauge with tolerance as close as .015.

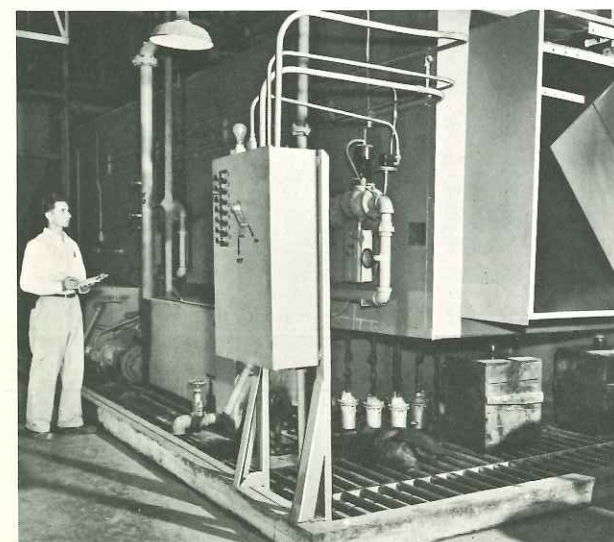
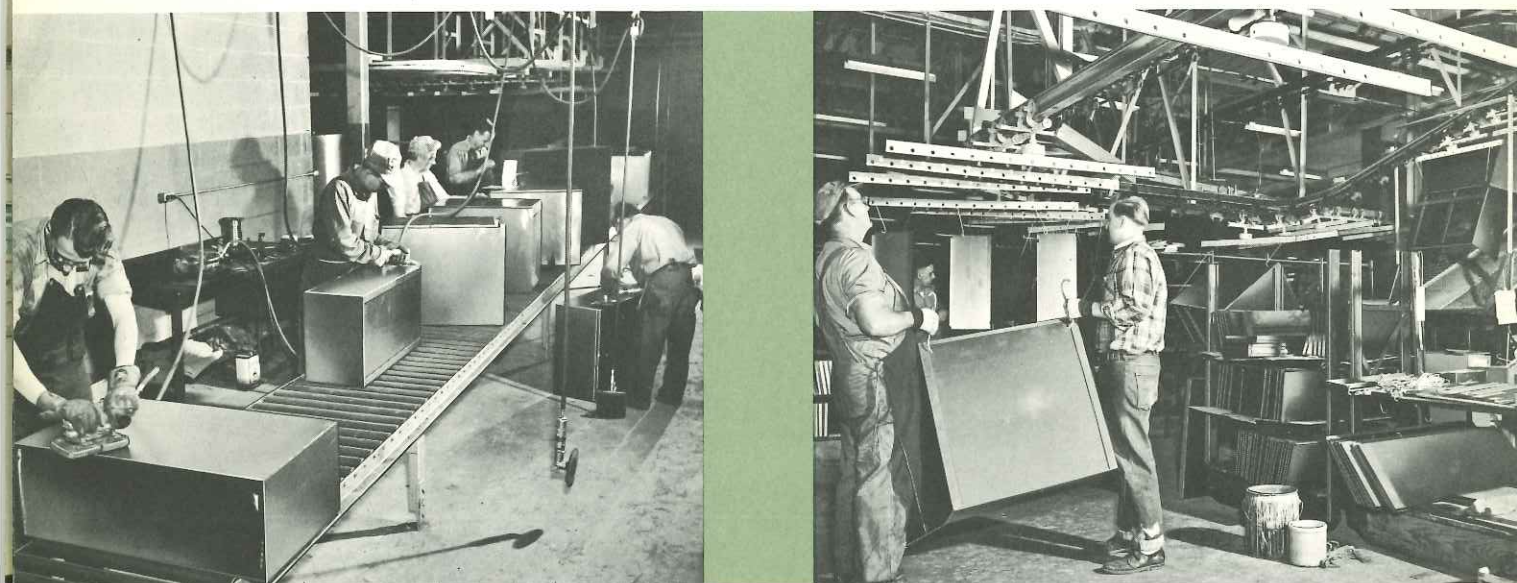
**WELDING DEPARTMENT.** Electric welders fuse the steel parts into complete units. Modern control devices insure strong welds, properly spaced to give enduring strength.





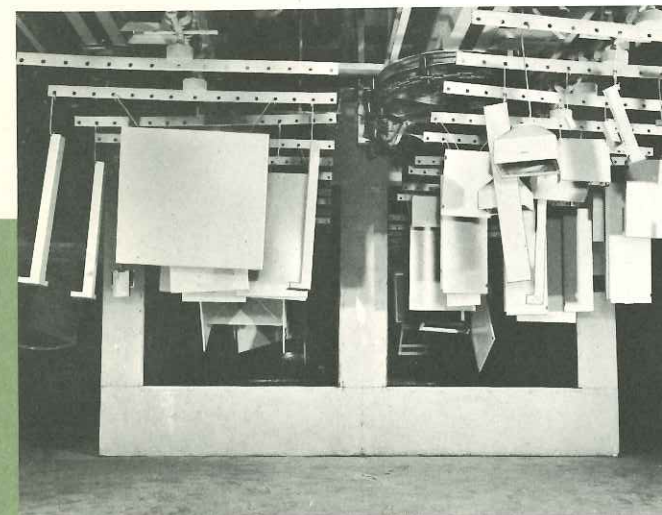
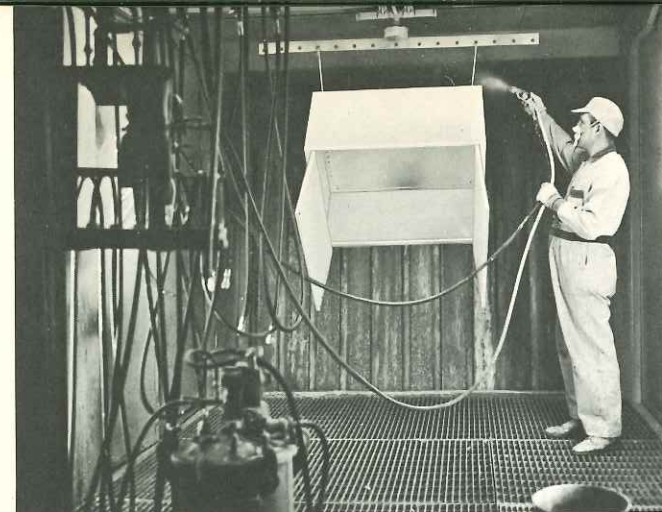
## THE *St. Charles* FINISH

An important contributing factor to the quality of St. Charles casework is its finish. It is a high grade, baked on, synthetic enamel of extra heavy film thickness, capable of withstanding years of hard, round-the-clock usage. It is hard enough to resist abrasion, bonderized to resist corrosion, yet, due to certain vegetable oils in its composition, is tough and flexible to resist chipping. In appearance it is smooth and glossy and may be had in a variety of standard colors as well as special colors when specified.



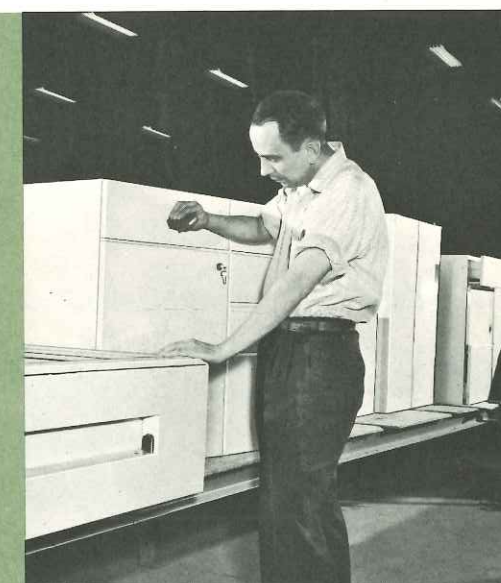
**PREPARATION** (Upper left). The first step in finishing is to sand and buff the units carefully to remove all burrs and rough edges. (Left). At this point the units are taken from the roller conveyor and hung on an overhead conveyor system for travel through the finishing department, which is a completely enclosed area in the center of the plant. This room is pressurized and entering air is filtered and temperature-controlled.

**BONDERIZING.** A six stage process consisting of an alkali wash, a hot water rinse, application of Bonderite, a cold water rinse, chromic acid treatment, and final dry off in a gas-fired oven. Every stage is automatically controlled for temperature and strength of solutions.



**SPRAYING AND BAKING.** Paint is applied in modern spray booths. A water curtain draws off excess paint and deposits it in water tanks beneath gridded floor. Prime coat is applied first.

From the prime spray booths, the units move through the prime oven (at left) then are sanded smooth before going to the finish spray booths and through the finish oven. Degree of heat and speed of travel through this 105 foot oven are automatically controlled.

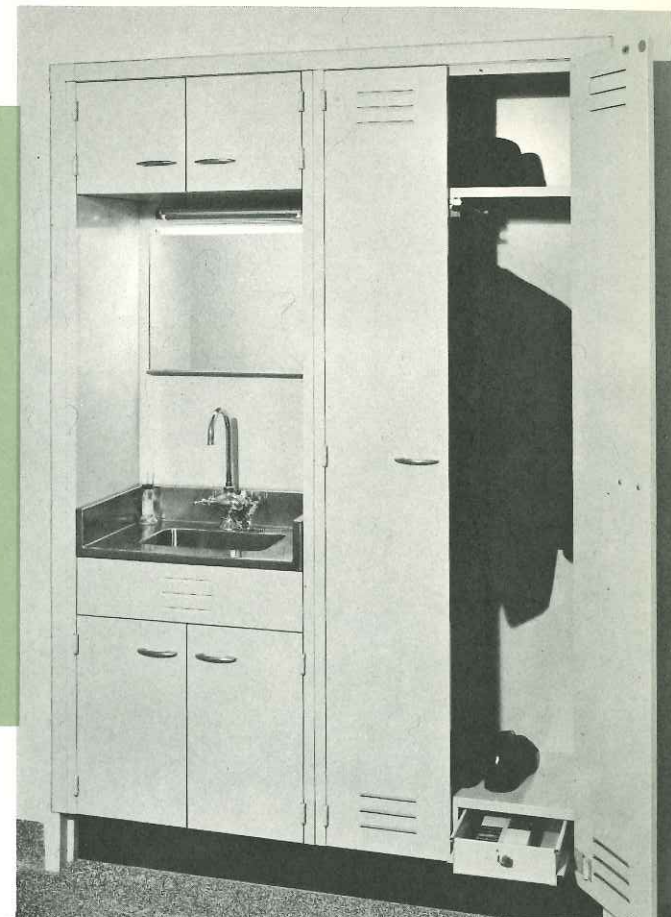
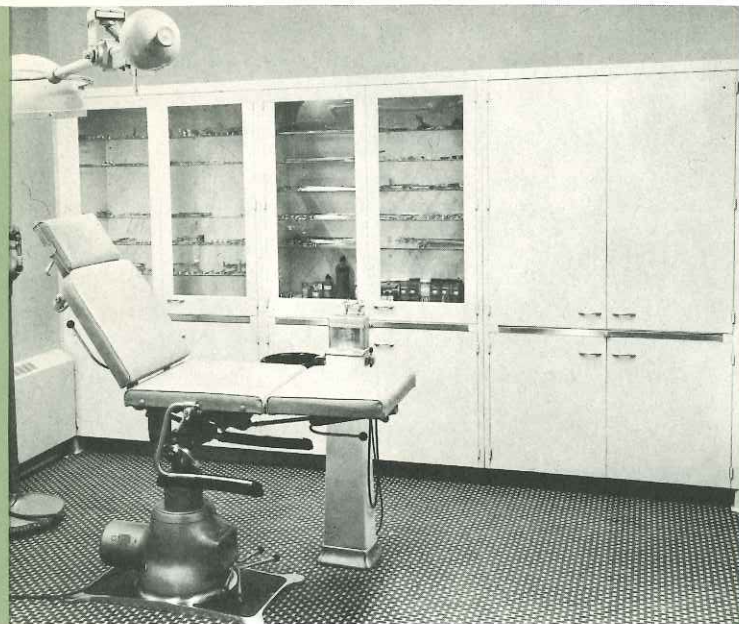


**INSPECTION.** From the enclosed finishing area, units travel on the overhead conveyor to final assembly. Here they receive complete inspection which includes elcometer gauge testing of the finish for film thickness.

**PAINT STORAGE.** Beneath the spray booths is the paint storage and mixing room. Paint is stored in tanks and flows through pipelines to the spray booths. Paint lines are kept in constant circulation to keep paint smooth and the color even.

**SHIPPING.** Centralized location of the St. Charles plants permits shipment of most of the casework in company-owned vans directly to the job. This lessens the possibility of damage in the course of transit.





TYPICAL INSTALLATIONS  
BY  
*St. Charles*



Although the units themselves are made to order, for greatest economy and simplification of layout and installation, it is desirable to adhere as far as possible to basic types and sizes. As the following pages of this catalog will show, one of the outstanding advantages offered by St. Charles is the great number of these basic types and sizes. For general storage the selection of standard widths, heights, and depths in all units will provide the efficient use of space in most layouts.

Every St. Charles installation is treated as an individual problem. No units are in stock. Fabrication does not begin until the order, with the approved layout, is received at the factory. The job is then produced in accordance with the dimensions and specifications of the approved order.

Where variation from these basic units will better meet the requirements, units differing in any or all dimensions are available. In an installation large enough to permit a run of several units of the same size or type there is little, if any, increase in cost.



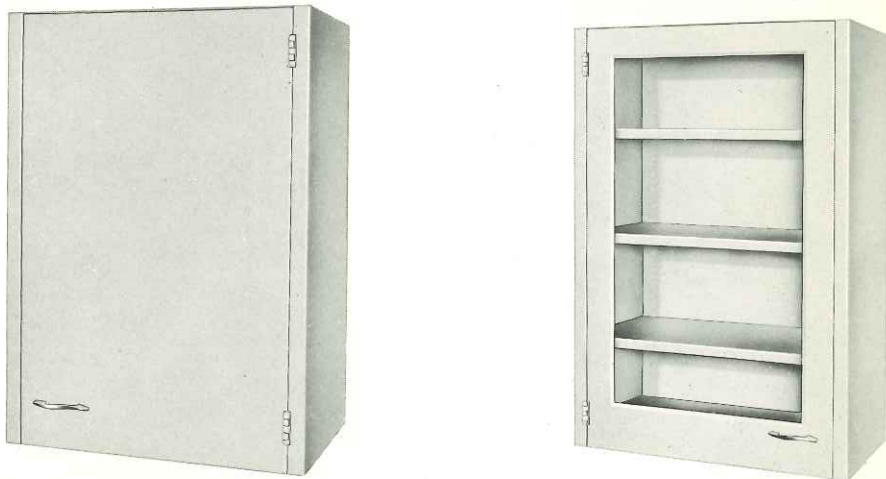
WALL UNITS

Wall units are available in a wide range of sizes and styles as shown. Units 45" and 48" high are mounted on the counter, providing extra storage above counter level. Glass shelves optional.

- Installation drawings and dimensions on pages 40-41.
- Sloping tops may be provided when required, page 31.
- Doors may be fitted with locks, page 30.



SINGLE DOOR UNITS



Code number indicates type and width of unit; height and depth to be shown on elevation and floor plan. Single door units available with either left or right door swing. Units of special dimensions may be ordered; minimum width twelve inches.

Cat. No.		Width	Heights			Depths
Metal Door	Glass Door		1 Adj. Shelf	2 Adj. Shvs.	3 Adj. Shvs.	
1101	1151	15	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1102	1152	18	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1103	1153	24	18, 24 3/8	30	36, 45, 48	12 3/4, 18

CORNER WALL UNIT

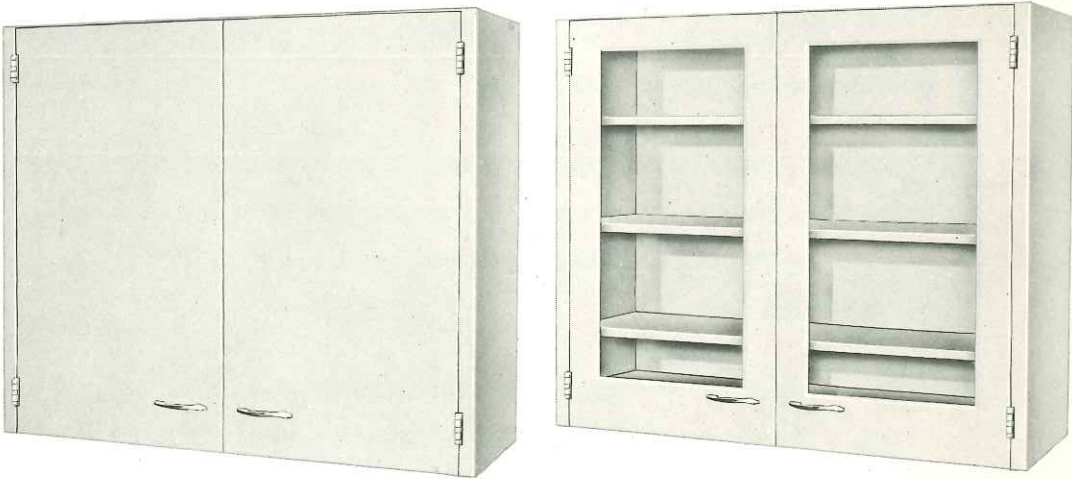


This unit is designed to be mounted on wall in corner to enable most effective use of corner space.

Cat. No.		Width at Wall	Heights		Depths
Metal Door	Glass Door		2 Adj. Shelves	3 Adj. Shelves	
1401	1451	26 x 26	30	36	12 3/4 along side 21 3/4 from front to back

Code number indicates type and width of unit; height to be shown on elevation and floor plan. Unit is available with either left or right door swing.

DOUBLE DOOR UNITS  
(HINGED DOORS)



Code number indicates type and width of unit; height and depth to be shown on elevation and floor plan. Units of special dimensions may be ordered; maximum width 60".

Cat. No.		Width	Heights			Depths
Metal Door	Glass Door		1 Adj. Shelf	2 Adj. Shvs.	3 Adj. Shvs.	
1201	1251	30	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1202	1252	36	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1203	1253	42	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1204	1254	48	18, 24 3/8	30	36, 45, 48	12 3/4, 18

DOUBLE DOOR UNITS  
(SLIDING DOORS)



Code number indicates type and width of unit; height and depth to be shown on elevation and floor plan. Units of special dimensions may be ordered; minimum width 30" - maximum width 60".

Cat. No.		Width	Heights			Depths
Metal Door	Glass Door		1 Adj. Shelf	2 Adj. Shvs.	3 Adj. Shvs.	
1301	1351	30	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1302	1352	36	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1303	1353	42	18, 24 3/8	30	36, 45, 48	12 3/4, 18
1304	1354	48	18, 24 3/8	30	36, 45, 48	12 3/4, 18



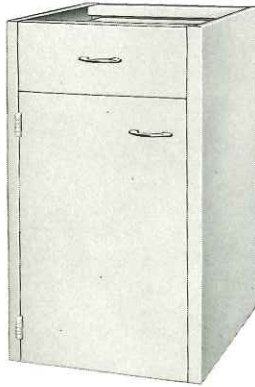
BASE UNITS

Cupboard base units are furnished in the styles and sizes shown on these pages. One adjustable shelf is standard in cupboard units. Base cabinets do not include sub base or counter top.

- Cupboard may be made with one, two, or three sliding shelves, page 29.
- Drawers may be fitted with interior dividers, page 30.
- All doors and drawers may be fitted with locks, page 30.
- Installation drawings and dimensions, pages 40-41.
- Counter tops, page 32.
- Sub bases, page 31.

CUPBOARD WITH DRAWER

Single door units are available with either left or right door swing. Units of special dimensions may be ordered; minimum width 12"; maximum width 60". Top drawer of double door unit may be single or double. 48" unit, double drawer only.



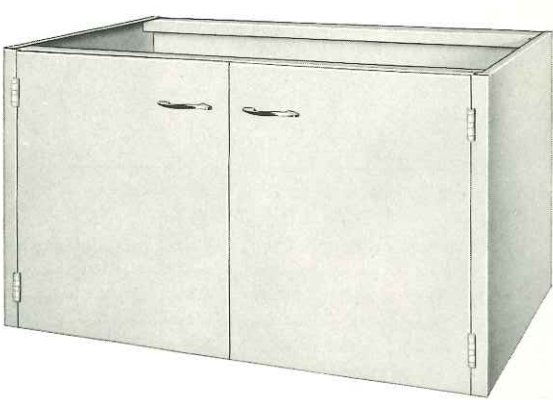
Code number indicates type and width of unit; height and depth to be shown on architect's plans.

SINGLE DOOR			
Code No.	Width	Height	Depth
1501	15	30 1/2	24 3/4
1502	18	30 1/2	24 3/4
1503	24	30 1/2	24 3/4

DOUBLE DOOR			
Code No.	Width	Height	Depth
1601	30	30 1/2	24 3/4
1602	36	30 1/2	24 3/4
1603	42	30 1/2	24 3/4
1604	48	30 1/2	24 3/4

LOW CUPBOARD ONLY

Single door units are available with either left or right door swing. Units of special dimensions may be ordered; minimum width 12"; maximum width 60".



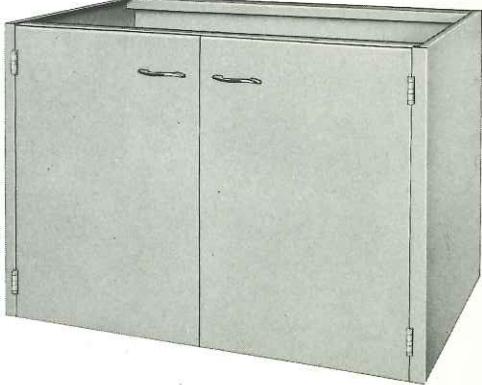
Code number indicates type and width of unit; height and depth to be shown on architect's plans.

SINGLE DOOR			
Code No.	Width	Height	Depth
1901	15	24 1/2	24 3/4
1902	18	24 1/2	24 3/4
1903	24	24 1/2	24 3/4

DOUBLE DOOR			
Code No.	Width	Height	Depth
2001	30	24 1/2	24 3/4
2002	36	24 1/2	24 3/4
2003	42	24 1/2	24 3/4
2004	48	24 1/2	24 3/4

CUPBOARD ONLY

Single door units are available with either left or right door swing. Units of special dimensions may be ordered; minimum width 12"; maximum width 60".



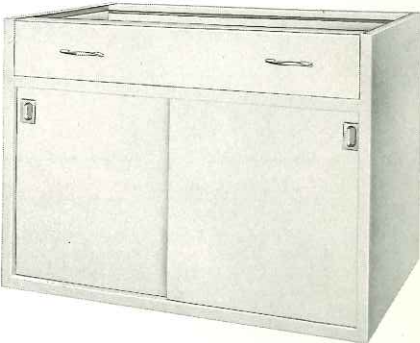
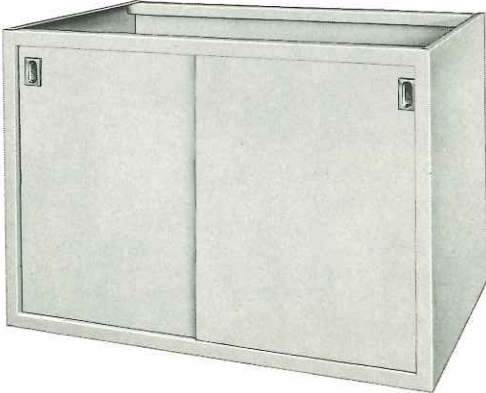
Code number indicates type and width of unit; height and depth to be shown on architect's plans.

SINGLE DOOR			
Code No.	Width	Height	Depth
1701	15	30 1/2	24 3/4
1702	18	30 1/2	24 3/4
1703	24	30 1/2	24 3/4

DOUBLE DOOR			
Code No.	Width	Height	Depth
1801	30	30 1/2	24 3/4
1802	36	30 1/2	24 3/4
1803	42	30 1/2	24 3/4
1804	48	30 1/2	24 3/4

SLIDING DOOR CUPBOARD UNITS

Units of special dimensions may be ordered; minimum width 30"; maximum width 60".



Code number indicates type and width of unit; height and depth to be shown on architect's plans.

CUPBOARD ONLY			
Code No.	Width	Height	Depth
2101	30	24 1/2, 30 1/2	24 3/4
2102	36	24 1/2, 30 1/2	24 3/4
2103	42	24 1/2, 30 1/2	24 3/4
2104	48	24 1/2, 30 1/2	24 3/4

CUPBOARD WITH DRAWER			
Code No.	Width	Height	Depth
2201	30	24 1/2, 30 1/2	24 3/4
2202	36	24 1/2, 30 1/2	24 3/4
2203	42	24 1/2, 30 1/2	24 3/4
2204	48	24 1/2, 30 1/2	24 3/4



## BASE UNITS

Drawer units are furnished in a number of sizes and drawer arrangements as shown below. Base cabinets do not include sub base or counter top.

- Drawers may be fitted with interior dividers, page 30.
- Drawers may be fitted with locks, page 30.
- Installation drawings and dimensions, pages 40-41.
- Counter tops, page 32.
- Sub bases, page 31.

### ALL DRAWER BASE UNITS

Code Number				Dimensions		
3 Drs.	4 Drs.	5 Drs.	Drw. Bin	Width	Height	Depth
2301	2401	2501	2601	15	30½	24¾
2302	2402	2502	2602	18	30½	24¾
2303	2403	2503	2603	24	30½	24¾
2304	2404	2504		30	30½	24¾
2305	2405	2505		36	30½	24¾
		2506		42	30½	24¾

Code number indicates type and width of unit; height and depth to be shown on architect's plans. Units of special dimensions may be ordered; minimum width 12".



### LOW ALL DRAWER BASE UNITS

Code Number				Dimensions		
2 Drs.	3 Drs.	4 Drs.	Drw. Bin	Width	Height	Depth
2701	2801	2901	3001	15	24½	24¾
2702	2802	2902	3002	18	24½	24¾
2703	2803	2903	3003	24	24½	24¾
2704	2804	2904		30	24½	24¾
2705	2805	2905		36	24½	24¾
		2906		42	24½	24¾

Code number indicates type and width of unit; height and depth to be shown on architect's plans. Units of special dimensions may be ordered; minimum width 12".



### DEEP DRAWER CUPBOARD UNIT

Two deep drawers at top with cupboard below.

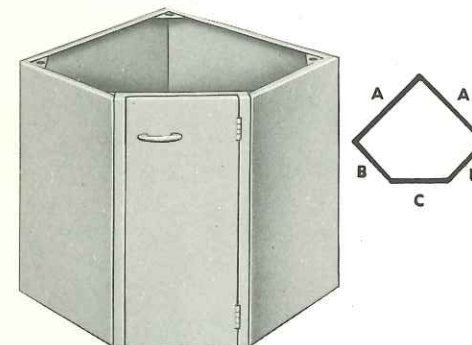
Code number indicates type and width of unit; height and depth to be shown on architect's plans.

Code No.	Width	Height	Depth
3501	30	30½	24¾
3502	36	30½	24¾



### CORNER BASE UNIT

Especially useful in small rooms where all possible wall space must be used. Provides full storage in corner space. Both units 30½ inches high.



Code No.	Width	Wall Space	Exposed Front	Depth
3601	42	44	19¼	24¾
3602	42	47	22¼	24¾

Code No.	Height	Wall Space	A	B	C
3651	30½	34x34	27⅝	18	13⅜



### SINK FRONT

DOUBLE DOOR			
Code No.	Width	Height	Depth
3101	30	24½, 30½	4⅞
3102	36	24½, 30½	4⅞
3103	42	24½, 30½	4⅞
3104	48	24½, 30½	4⅞

SINGLE DOOR			
Code No.	Width	Height	Depth
3301	15	24½, 30½	4⅞
3302	18	24½, 30½	4⅞
3303	24	24½, 30½	4⅞

This is designed to enclose the sink compartment. Has removable bottom plate.

Code number indicates type and width of unit; height and depth to be shown on architect's plans. Single door units are available with either left or right door swing. Units of special dimensions may be ordered; minimum width 12"; maximum width 60".



### SINK CABINET

DOUBLE DOOR			
Code No.	Width	Height	Depth
3201	30	24½, 30½	24¾
3202	36	24½, 30½	24¾
3203	42	24½, 30½	24¾
3204	48	24½, 30½	24¾

SINGLE DOOR			
Code No.	Width	Height	Depth
3407	15	24½, 30½	24¾
3402	18	24½, 30½	24¾
3403	24	24½, 30½	24¾

Cabinet with full sides and removable back and bottom plate.





RELATED BASE UNITS

Where cabinets are not needed beneath the counter these related base units may be used.

SUSPENDED DRAWERS

Designed to fit below counter, primarily where sit down section is desired and drawer is necessary for storage of materials. Often used with apron panel section.

Code No.	Width	Height	Depth
3801	15	4, 6	24 3/4
3802	18	4, 6	24 3/4
3803	24	4, 6	24 3/4
3804	30*	4, 6	24 3/4
3805	36*	4, 6	24 3/4
3806	42*	4, 6	24 3/4
3807	48†	4, 6	24 3/4

\* Can be had with double or single drawers.  
† Double drawer only.

APRON PANEL

Available in standard heights of 4 and 6 inches and in any length up to 84 inches. Used as trim to give finished appearance to underside of tops.

TABLE FRAME

Frames can be utilized with legs to form tables or suspended between units to support counter space. Table frames may be blank or contain from one to three drawers, depending upon the length.

Code No.	Width	Height	Depth
3701	24	4, 6	24 3/4
3702	30	4, 6	24 3/4
3703	36	4, 6	24 3/4
3704	42	4, 6	24 3/4
3705	48	4, 6	24 3/4
3706	54	4, 6	24 3/4
3707	60	4, 6	24 3/4

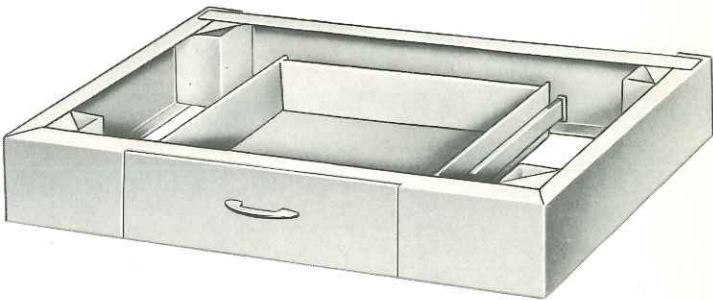
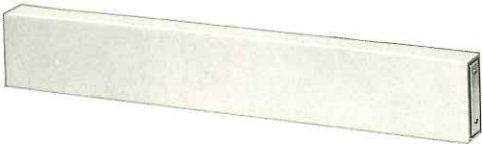
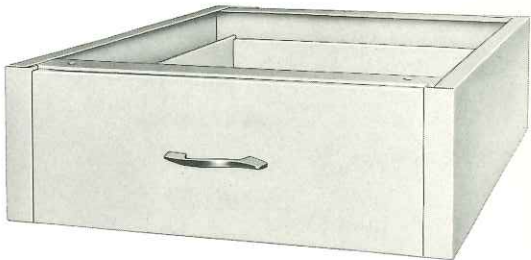
LEGS

Individual 2 x 2 legs are designed to support tops where cabinets are not required. Can be used with apron panels and table frames. Legs have adjustable bronze screw covered by Neoprene foot. With or without flat plate.

Code 3900

Stretcher connecting legs may be had where additional strength is needed. Legs have same adjustability and heights as individual legs.

Code 3950



OPEN SHELVING

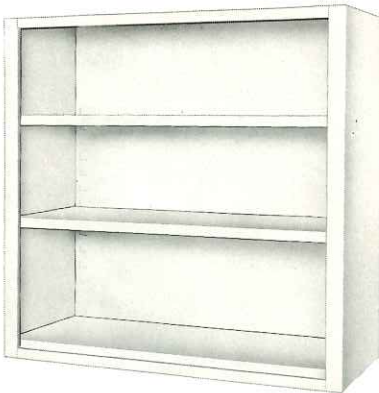
Open shelving is designed to provide accessible and economical storage space for materials that do not require closed storage. Sub base and counter top not included.

- Sloping top may be provided when required, page 31.
- Counter top, page 32.
- Sub bases, page 31.

WALL TYPE

Code No.	Width	Heights			Depths
		1 Adj. Shelf	2 Adj. Shelves	3 Adj. Shelves	
4001	15	18, 24 3/8	30	36, 45, 48	12 3/4, 18
4002	18	18, 24 3/8	30	36, 45, 48	12 3/4, 18
4003	24	18, 24 3/8	30	36, 45, 48	12 3/4, 18
4004	30	18, 24 3/8	30	36, 45, 48	12 3/4, 18
4005	36	18, 24 3/8	30	36, 45, 48	12 3/4, 18
4006	42	18, 24 3/8	30	36, 45, 48	12 3/4, 18
4007	48	18, 24 3/8	30	36, 45, 48	12 3/4, 18

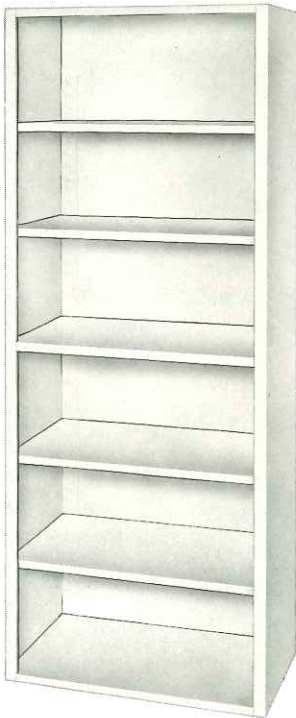
Code number indicates type and width of unit; height and depth to be shown on architect's plans. Shelving from 18" to 36" high is designed to be mounted on wall above counters. Shelving from 45" to 48" high is for mounting on counters. Open shelving wall units of special dimensions may be ordered, minimum width 12", maximum width 60".



FULL HEIGHT TYPE

Code No.	Width	Heights	Depths
4101	15	77, 80	12 3/4, 18, 24 3/4
4102	18	77, 80	12 3/4, 18, 24 3/4
4103	24	77, 80	12 3/4, 18, 24 3/4
4104	30	77, 80	12 3/4, 18, 24 3/4
4105	36	77, 80	12 3/4, 18, 24 3/4
4106	42	77, 80	12 3/4, 18, 24 3/4
4107	48	77, 80	12 3/4, 18, 24 3/4

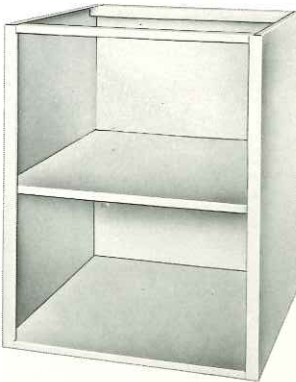
Code number indicates type and width of unit; height and depth to be shown on architect's plans. Similar in construction to full height unit except without doors. Five shelves; four adjustable, center shelf welded in place. Full height opened shelving units of special dimensions may be ordered, minimum width 12", maximum width 48".



BASE TYPE

Code No.	Width	Heights	Depth
4201	15	30 1/2	24 3/4
4202	18	30 1/2	24 3/4
4203	24	30 1/2	24 3/4
4204	30	30 1/2	24 3/4
4205	36	30 1/2	24 3/4
4206	42	30 1/2	24 3/4
4207	48	30 1/2	24 3/4

Code number indicates type and width of unit; height and depth to be shown on architect's plan. Similar in construction to cupboard base units without door. One adjustable shelf. Open shelving base units of special dimensions may be ordered, minimum width 12", maximum width 60".





FULL HEIGHT UNITS

These units are designed to make full use of space from sub-base to top of assembly. Full height units are furnished in styles and sizes shown on these pages. Sub base not included. All full height units have five shelves; four adjustable, center shelf welded in place. Glass or stainless steel shelves optional, except welded center shelf. Hinged doors may be divided into upper and lower sections.

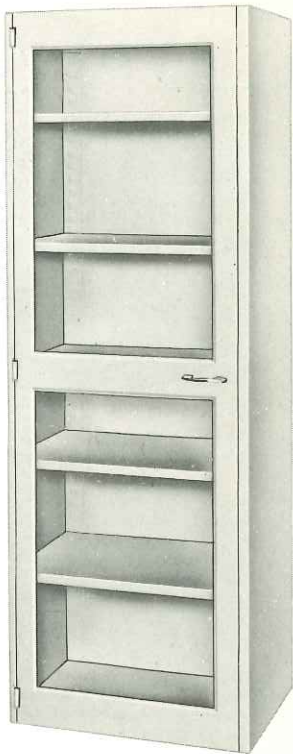
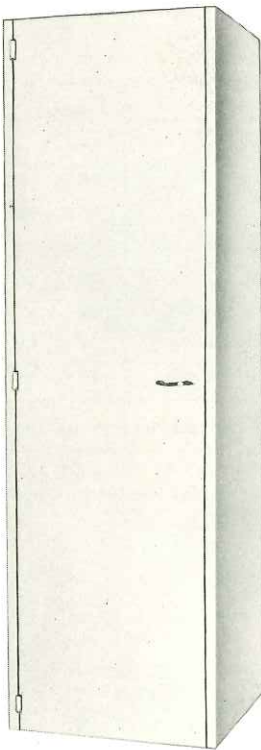
- Sloping tops may be provided when required, page 31.
- Sub bases, page 31.
- Installation drawings and dimensions, pages 40-41.
- All doors may be fitted with locks, page 30.



SINGLE DOOR  
(HINGED)

Code No.		Widths	Heights	Depths
Metal Door	Glass Door			
4301	4351	18	77, 80	12 3/4, 18, 24 3/4
4302	4352	24	77, 80	12 3/4, 18, 24 3/4

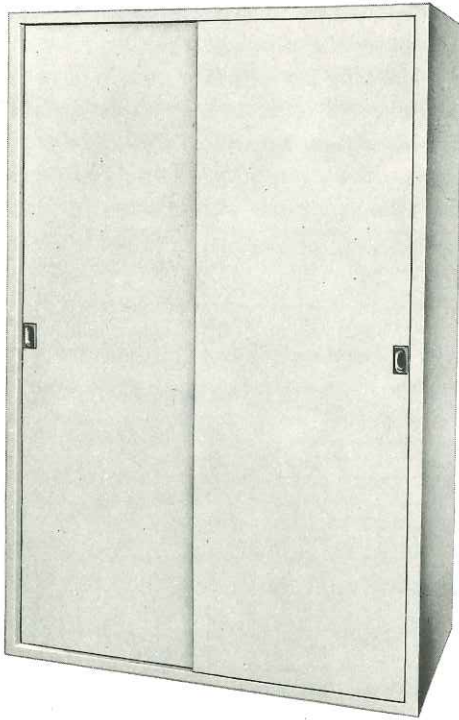
Code number indicates type and width of unit; height and depth to be shown on architect's plans. Units of special dimensions may be ordered, minimum 12".



SLIDING DOORS

Code No.		Width	Height	Depths
Metal Doors	Glass Doors			
4501	4551	30	77, 80	12 3/4, 18, 24 3/4
4502	4552	36	77, 80	12 3/4, 18, 24 3/4
4503	4553	42	77, 80	12 3/4, 18, 24 3/4
4504	4554	48	77, 80	12 3/4, 18, 24 3/4

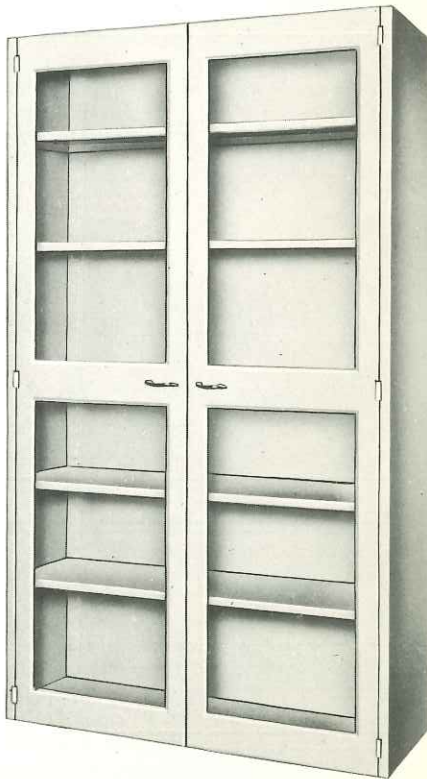
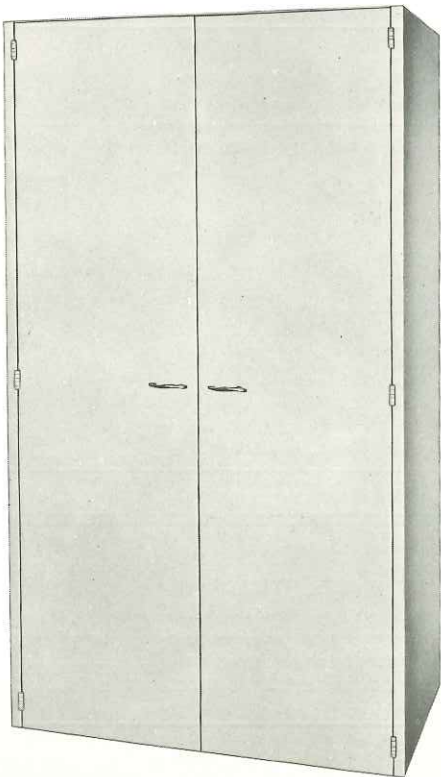
Code number indicates type and width of unit; height and depth to be shown on architect's plans. Units of special dimensions may be ordered, maximum width 48".



DOUBLE DOOR  
(HINGED)

Code No.		Widths	Heights	Depths
Metal Door	Glass Door			
4401	4451	30	77, 80	12 3/4, 18, 24 3/4
4402	4452	36	77, 80	12 3/4, 18, 24 3/4
4403	4453	42	77, 80	12 3/4, 18, 24 3/4
4404	4454	48	77, 80	12 3/4, 18, 24 3/4

Code number indicates type and width of unit; height and depth to be shown on architect's plans. Units of special dimensions may be ordered, maximum 48".

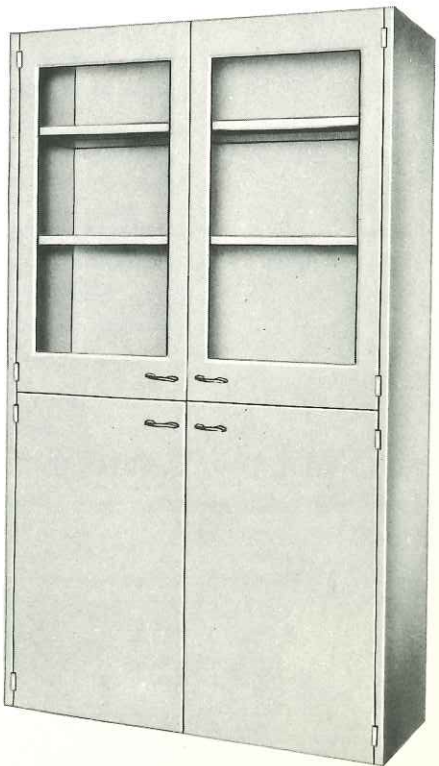


GLASS AND SOLID DOORS  
(HINGED)

Code No.	Width	Heights	Depths
4475	30	77, 80	12 3/4, 18, 24 3/4
4476	36	77, 80	12 3/4, 18, 24 3/4
4477	42	77, 80	12 3/4, 18, 24 3/4
4478	48	77, 80	12 3/4, 18, 24 3/4

Unit has visible storage above, concealed storage below. Doors divided equally into upper and lower sections.

Code number indicates type and width of unit; height and depth to be shown on architect's plans. Units of special dimensions may be ordered, maximum 48".

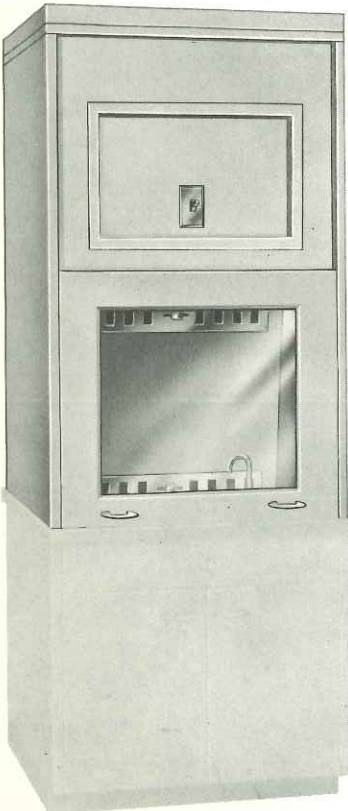




# SPECIAL PURPOSE UNITS

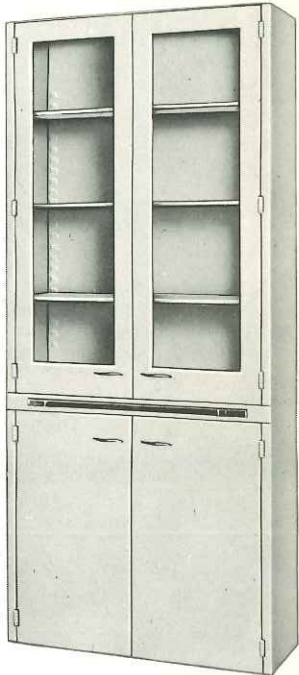
While the general storage requirements of a hospital may be satisfied through selection from the variety of basic units shown on the preceding pages, many needs can only be met by units specially designed to perform specific storage functions. These are illustrated and described on this and the following pages. Several of these are available in number of widths, depths, and heights. Due to the special construction, however, some are available only in the sizes shown. Glass or stainless steel shelves are optional except welded center shelf. Sub bases and counter top not included. Where desirable, units are available with: sloping tops, page 31; locks, page 30; counter tops, page 32; sub base, page 31; wardrobe units, page 22.

**INSTRUMENT CASE** For the storage of instruments in operating room or sterile storage rooms. Pull out stainless steel shelf between upper and lower sections. Upper section has glass doors and three shelves. Lower section has one adjustable shelf.



Code No.	Width	Heights	Depths
4601 *	24	77, 80	12 3/4, 18, 24 3/4
4602	30	77, 80	12 3/4, 18, 24 3/4
4603	36	77, 80	12 3/4, 18, 24 3/4
4604	42	77, 80	12 3/4, 18, 24 3/4
4605	48	77, 80	12 3/4, 18, 24 3/4

\*Unit 24" wide has one door above and below.  
All double door units available with sliding doors—upper section.

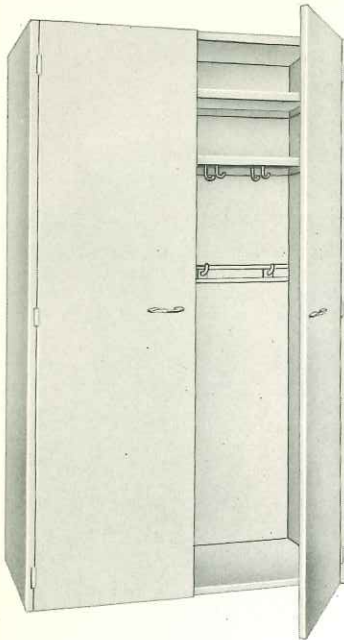
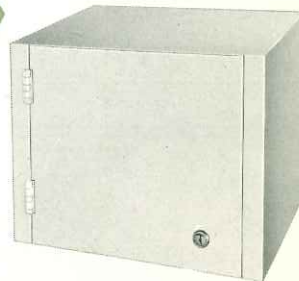


**FUME HOOD UNIT** Ideal for general laboratory use. A completely welded and assembled unit, transite lined, enameled steel exterior with all exposed interior metal parts of stainless steel. Vaporproof light provides interior illumination. Exhaust duct and transition by others. Specify services required.

Code No.	Width	Height	Depth
6201	36	60	29
6202	48	60	29

**NARCOTICS CABINET** A small wall cabinet, designed to fit inside a larger wall unit, each equipped with locks, normally keyed separately. Has a warning light switch which causes light to go on when door is open. Light and receptacle in soffit furnished by others.

Code No.	Width	Height	Depth
4801	15	12	9

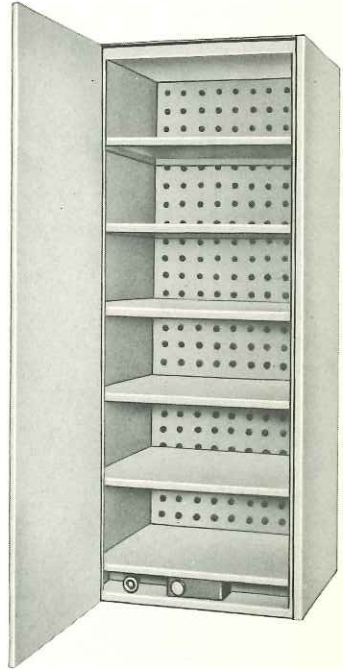


**SPLINT CASE** Designed for storage of splints with two shelves at top, upper shelf slides out, lower shelf fixed. Unit has two rows of four sliding hooks each suspended below lower shelf; one row of four sliding hooks attached to back at lower level.

Code No.	Width	Heights	Depths
4901	36	77, 80	18, 24 3/4
4902	42	77, 80	18, 24 3/4

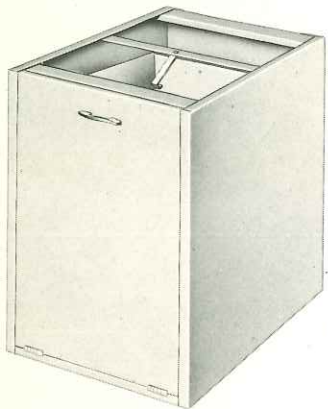
**BLANKET WARMER** Insulated cabinet which may be either electrically or steam heated.

Code No.	Width	Heights	Depths
5001	24	77, 80	18, 24 3/4
5002	30	77, 80	18, 24 3/4
5003	36	77, 80	18, 24 3/4



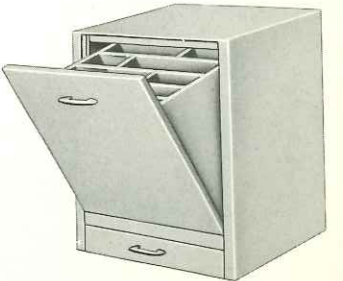
**PLASTER BIN** Undercounter tilting bin for storage of plaster. Storage bin removable for cleaning. Bin has positive stop to prevent accidental removal.

Code No.	Width	Height	Depth
5101	18	30 1/2	24 3/4
Dimensions of interior bin	13	18	19



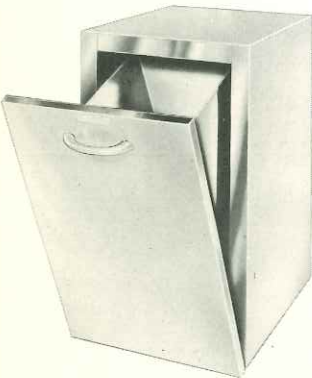
**FILM BIN** Unit designed for use in dark rooms for film storage. Standard film boxes can be accommodated by means of adjustable spacers. Limit switch designed to turn off room light when bin is opened.

Code No.	Width	Height	Depth
5150	21	30 1/2	18



**ICE CHEST** Tilting bin to fit under counter with capacity for 100 pounds of cracked ice. Exposed parts are of stainless steel; concealed parts, galvanized steel. Includes center drain.

Code No.	Width	Height	Depth
5201	18	30 1/2	24 3/4
Dimensions of ice container	12	22	16



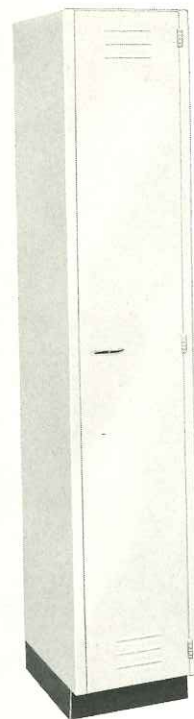


# WARDROBE CASEWORK

Here is a complete line of wardrobe units flexible enough in design and arrangement to fit new plans or present building conditions. Their appearance in the color you choose and their clean, uncluttered look will add to the attractiveness of any room. Along with functional

design and good looks, you are assured of a product fabricated to the same rigid specifications as St. Charles hospital casework. The four basic types shown here may be used in any combination to fit a single or double room or ward area. Units shown are standard, special sizes available.

Received  
October 31, 1958



**WARDROBE**—Each wardrobe contains a hat shelf, hanging rod and two coat hooks. Doors are louvered top and bottom for adequate ventilation.

Cat. No.	Width	Height	Depth
4700G3	15	77	24 3/4
4701G3	18	77	24 3/4
4700H3	15	80	24 3/4
4701H3	18	80	24 3/4

**DOOR-TYPE DRESSER**—Dresser section has Formica counter, mirror and light. Two drawers and adjustable shelf in door section below, blanket storage in door section above.

Cat. No.	Width	Height	Depth
4710G3	27	77	24 3/4
4710H3	27	80	24 3/4



**DRAWER-TYPE DRESSER**—Dresser section contains Formica counter, mirror and light. Five drawers below counter and blanket storage in door section above. Drawer arrangement may be varied.

Cat. No.	Width	Height	Depth
4720G3	27	77	24 3/4
4720H3	27	80	24 3/4

**LAVATORY UNIT**—Lavatory section has stainless steel top with bowl, mirror and light. General storage space below and blanket storage in door section above. Furnished with or without faucet.

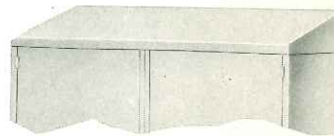
Cat. No.	Width	Height	Depth
4730G3	27	77	24 3/4
4730H3	27	80	24 3/4



## ACCESSORIES

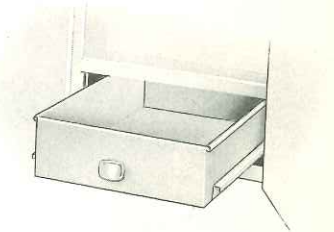
### SLOPING TOP

When furring is not used, sloping dust cap may be installed above units. Top has vertical face 1" high, then slopes back at a 30° angle.



### SLIDING SHELF

Position at bottom of wardrobe unit with fixed shelf above, convenient storage of small personal items.



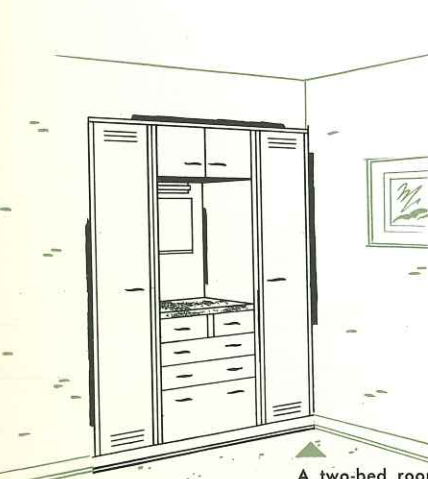
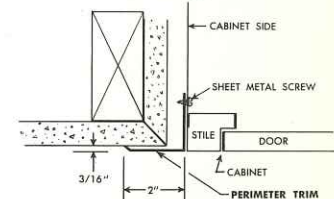
### SUB BASE

Black metal base of 18-gauge steel provided when required, height 4", sub base extends under entire assembly.



### PERIMETER TRIM

For use with complete recessed assemblies of wardrobe casework.



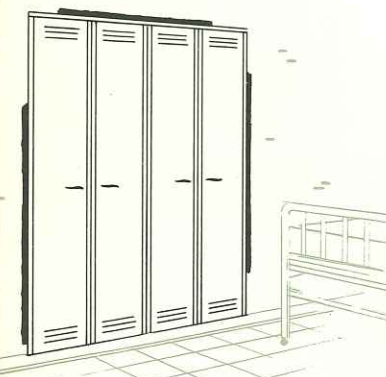
A two-bed room recessed installation—wardrobe units with drawer-type dresser unit. For this type installation metal perimeter trim assures a neat flush fit to wall.



Free-standing two-bed room installation with sloping top and metal sub base—two wardrobe units with door-type dresser unit. Especially suited to remodeling plans, no floor wall or ceiling preparation necessary.



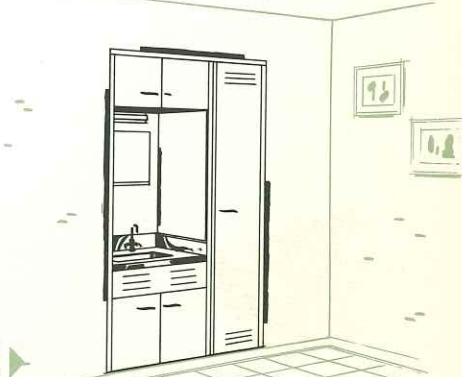
Single-room installation with furred-down ceiling and metal sub base, wardrobe unit with drawer-type dresser unit.



Recessed wardrobe units for multiple bed areas, perimeter trim included.



Free-standing two-bed room installation with metal sub base and sloping top. Two wardrobe units with lavatory section.

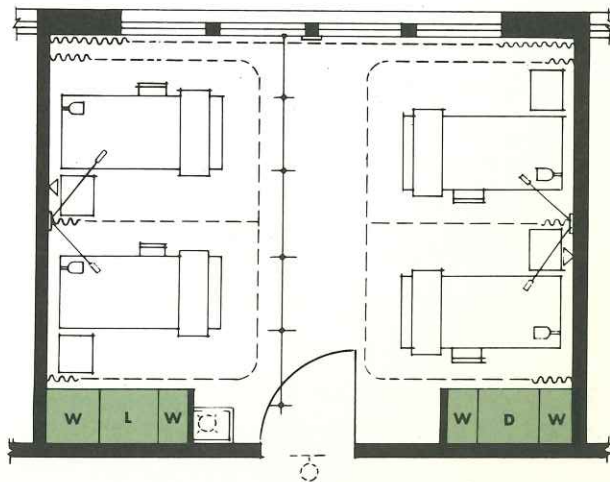
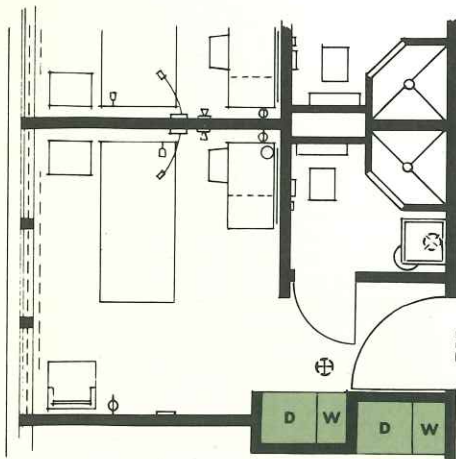
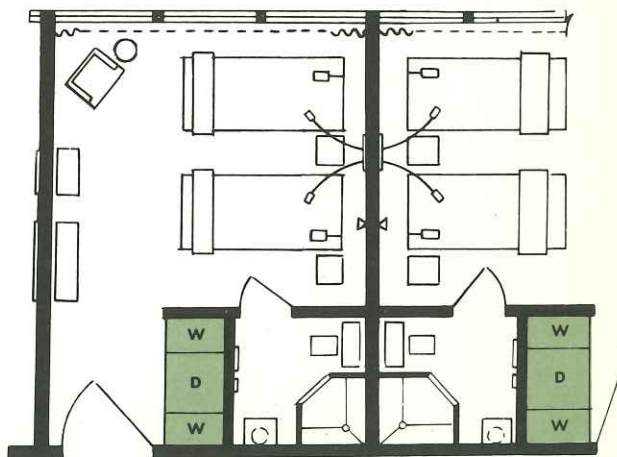
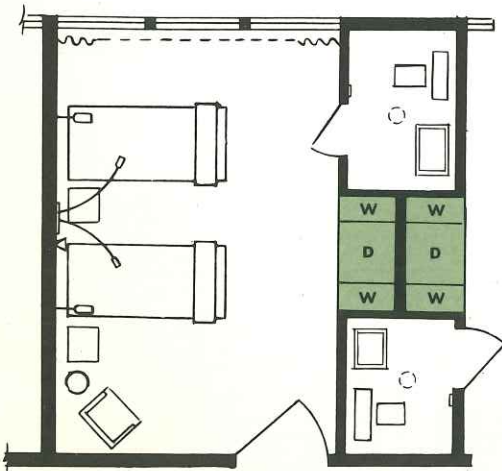
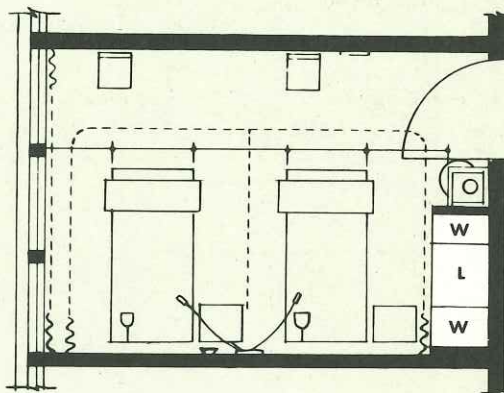
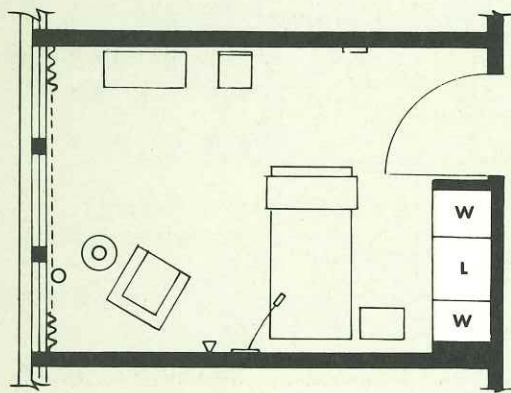
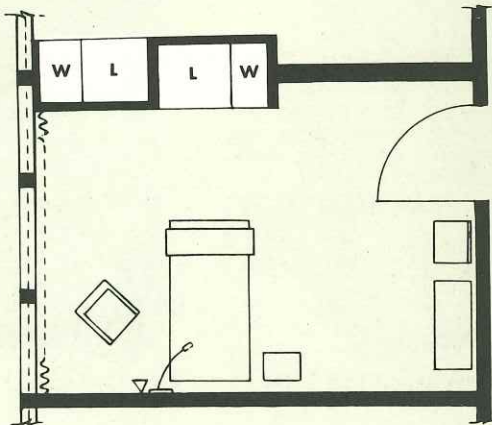
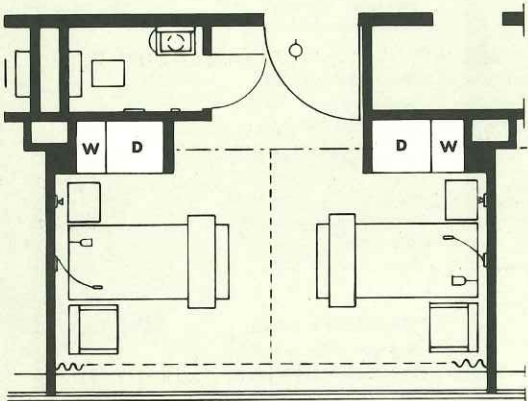
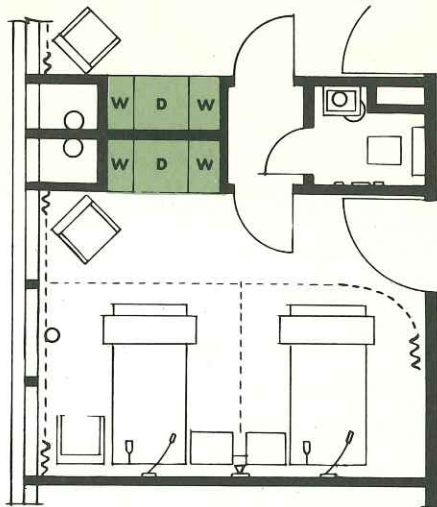
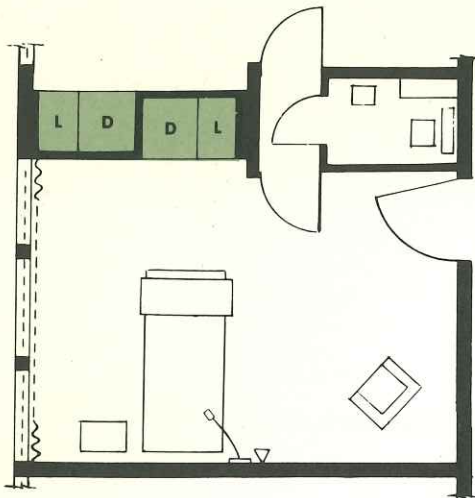
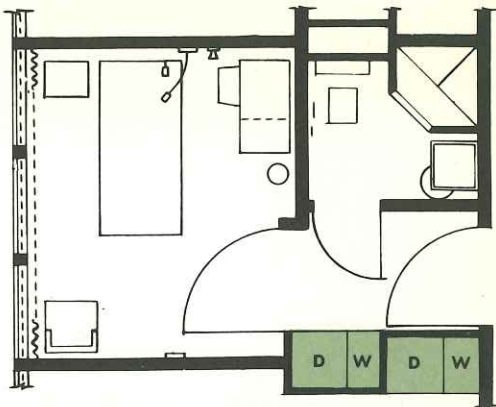


Single-bed room recessed installation, wardrobe unit with lavatory unit, perimeter trim included.

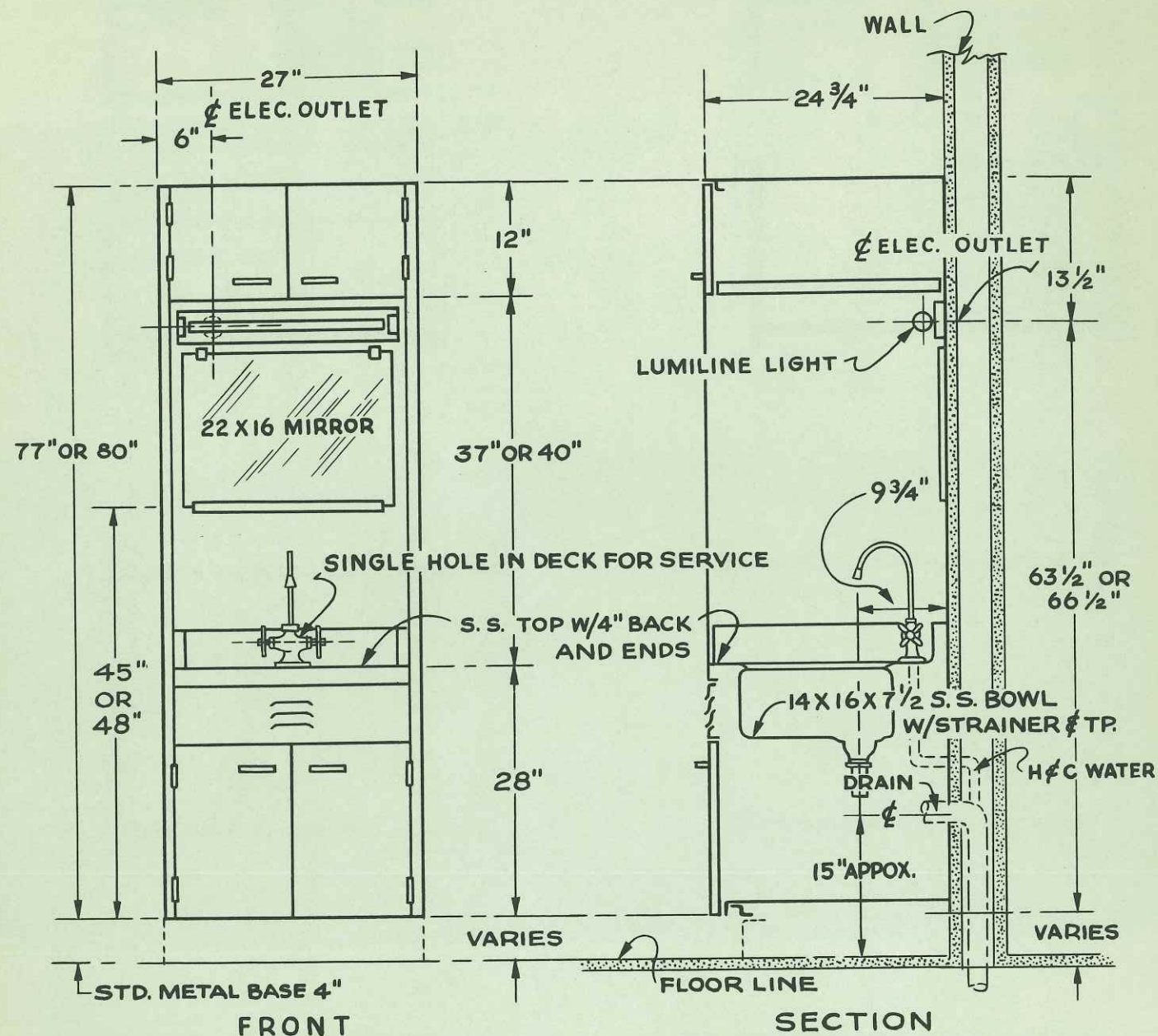


Shown here are typical patients bedroom floor plans showing various arrangements and applications of St. Charles wardrobe casework.

- L – LAVATORY UNIT
- D – DRESSER UNIT
- W – WARDROBE UNIT







## PLUMBING AND WIRING ROUGHING-IN DETAILS

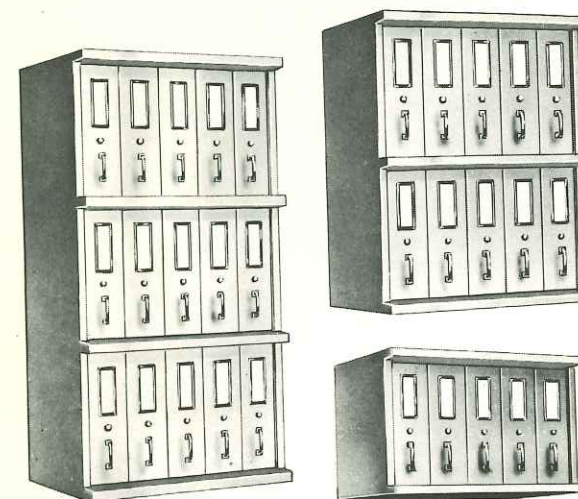
Simplicity of installation keeps preliminary preparation to a minimum.

**PLUMBING**—Drain outlet in wall should be approximately 15" from floor and centered on unit. Bowl drain is 9 3/4" from back of unit. Stainless steel deck is punched for single hole faucet installation.

**WIRING**—Electrical lead should be located 6" from left side of unit and 67 1/2" or 70 1/2" from floor if 4"-high sub base is used. Same applies for both dresser and lavatory. (See illustration above.)

**ROUGH WALL OPENING**—For recessed units to be 1" greater in width and height than overall dimension of unit assembly.

## RELATED ITEMS



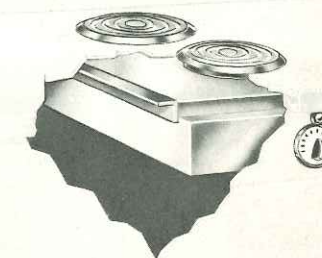
### DRUG CABINETS

Sectional units with pull-out drawers to hold drug containers. Furnished in natural finished wood, also available in white enamel.

Code No.	Width	Height	Depth	No. Drawers
5501	24	15 3/4	18	5
5502	24	30 1/2	18	10
5503	24	45 1/4	18	15

### SURFACE BURNER

Two monotube single coil heating elements, mounted in counter top. Stainless steel insert provided where formica counter is used. Cabinet under may be drawer or cupboard type with control panel in lieu of top drawer. Element wattage 9" 1500 watt; 11" 2100 watt—both 230-240 volt. Code No. 5821. Eleven inch size available as single unit. Code No. 5822.



### SORTING BIN

A unit divided into 12" wide compartments to be mounted on Central Sterile Supply sorting table. Available in either enameled furniture steel or stainless steel.



Code No.	Overall Width	Height	No. of Compartments
5551	60	16	5
5552	72	16	6
5553	84	16	7
5554	96	16	8

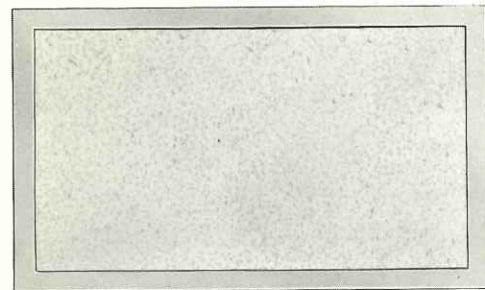




## BULLETIN BOARD

The tacking surface is natural cork mounted on a substantial built-up backing. Thumb tacks and pins are easily inserted, hold securely, and are easily removed without leaving holes. Heavy gauge steel frame finished in baked enamel. Complete with brackets.

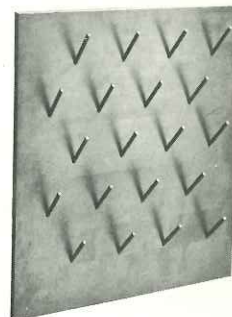
Code No.	Size
5301	18 x 24
5302	18 x 30
5303	18 x 36
5304	18 x 48
5305	24 x 36
5306	36 x 48
5307	36 x 60



## PEG BOARD

Board 1 1/4" thick made of birch strips fastened together with tongue and groove joints and locked with dowels. Holds twenty pegs, 3/8" in diameter, arranged in five rows of four pegs, spaced five inches apart. Pegs inserted at 45 degree angle. Pegs and board are acid resistant.

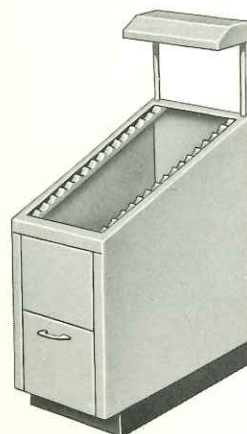
Code No.	Width	Height
5601	24	30



## CHART RACK UNIT

May be installed as fixed equipment or provided with swivel caster type base for mobility. Enameled steel case with cast aluminum chart racks in which chart holders can be suspended. Drawer at bottom provides additional storage. Adjustable light fixture. Unit shown is 15 chart capacity. Height does not include light.

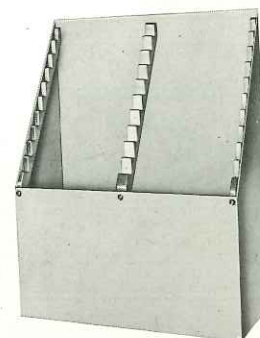
Code No.	Width	Height	Depth	Capacity
5420	12	32 1/6	24 3/4	15
5421	24	32 1/6	24 3/4	30
5422	36	32 1/6	24 3/4	45



## CHART RACK

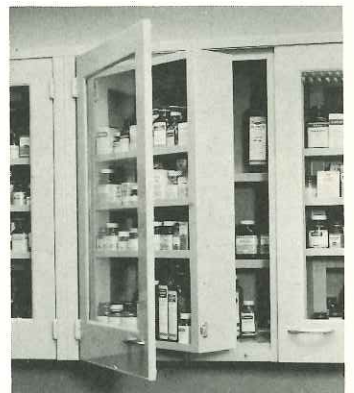
Fits into recess in counter. Case of enameled or stainless steel, holds cast aluminum chart racks in which chart holders can be suspended. Unit shown is 20 chart capacity.

Code No.	Width	Height	Depth	Capacity
5701	10 1/2	26 5/8	9	10
5702	20 3/4	26 5/8	9	20
5703	31	26 5/8	9	30

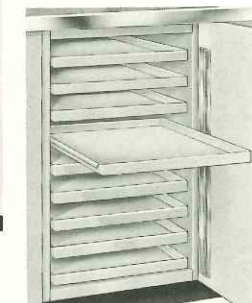


## SWING OUT SHELF

Provides convenient storage for many small and medium sized items particularly in Pharmacies. Shelf swings out allowing access to adjustable half shelves at rear of unit. Available on wall units only. Code No. 5925.



BASE SLIDING SHELVES  
CODE NO. 5980



TRAY SLIDING SHELVES  
CODE NO. 5981

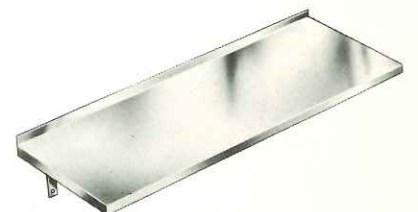
## BASE SLIDING SHELVES AND TRAY SLIDING SHELVES

For use in cupboard and full height type units to provide convenient pull out storage. Shelves are mounted on rollers with positive stop. Sides of pull out shelves may vary in height; minimum 1", maximum 9".

## WALL SHELVES

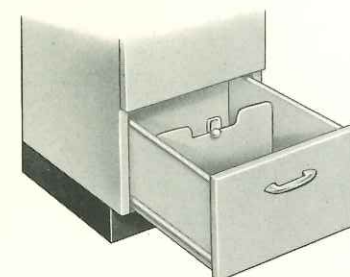
These shelves are available in stainless steel or enameled steel, for use on wall where needed, usually above scrub-up sinks and in patients' washrooms. Supported by wall brackets which are attached to shelves. Standard depths are 6 and 12 inches; lengths as needed.

Code No.	
Stainless 5901	Enamel 5951



## FILE DRAWER

Compressor plate adjusts to keep files neat and upright. Available in any 12" high drawer. Use 18" wide unit for letter size files — 21" wide unit for legal size files. Code No. 5990.





RELATED ITEMS

FLUORESCENT LIGHT

Fluorescent light built into under side of wall cabinet 18" or more wide. Provides light at counter without shadows. Has underwriters approval. Includes switch and one electrical outlet. Code No. 6201.

DRAWER DIVIDERS

Any drawer may have metal dividers welded in where needed to provide separate compartments within drawer. Adjustable dividers of wood are available.

PULL OUT BOARD

May be fitted into 18 inch wide drawer or cupboard type base unit. Used as writing section in desk or as additional counter. Made of maple, stainless or enamel steel. Code No. 6101.

DRAWER AND DOOR LOCK

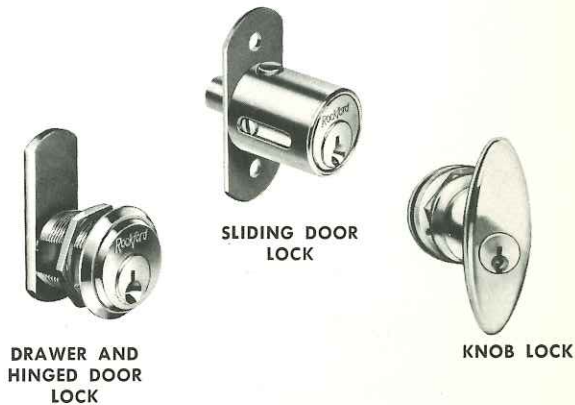
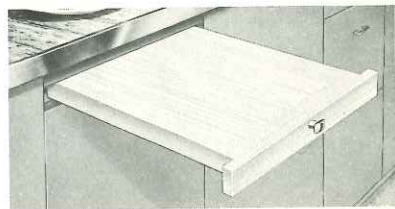
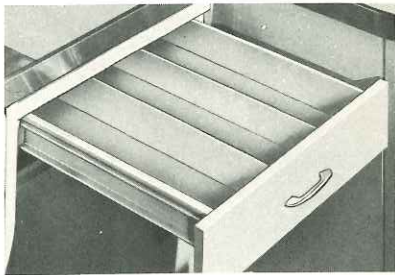
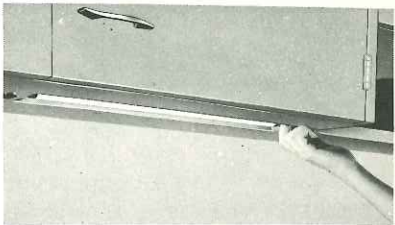
Cylinder Lock—Satin chrome pin tumbler lock for drawers and hinged doors carefully manufactured to provide maximum security. These locks can be keyed differently, master-keyed, or grand master-keyed. These locks can also be keyed in with other pin tumbler locks. Two keys are regularly supplied for each lock.

SLIDING DOOR LOCK

Satin chrome pin tumbler lock manufactured to close tolerances for sliding doors. To lock, simply push cylinder into lock, no key is required. This lock can be keyed in with other pin tumbler locks and can be master-keyed and grand master-keyed. Two keys are regularly supplied with each lock.

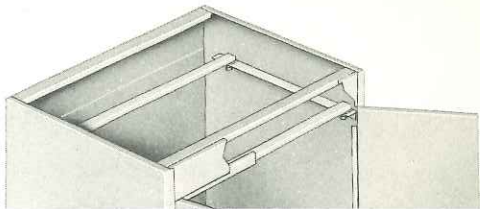
KNOB LOCK

Satin chrome pin tumbler type lock mounted in turn knob. These locks can be keyed with other pin tumbler locks and can be master-keyed and grand master-keyed. Two keys are supplied with each lock.



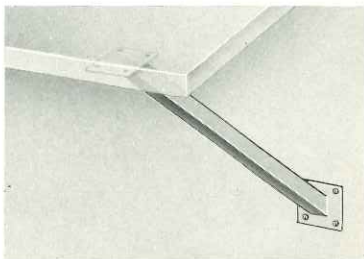
STONE SINK SUPPORT

Steel support for stone sinks. Two steel channels, 1" x 2", rest upon and are joined to two angle strips, 1 1/4" x 1 1/4", which are attached to the inside of the sink cabinet or to the sides of the adjoining storage units. At each corner of the support is an adjustment bolt, operated from beneath, which enables adjustment of the support up or down for a distance of 2". Code No. 6301.



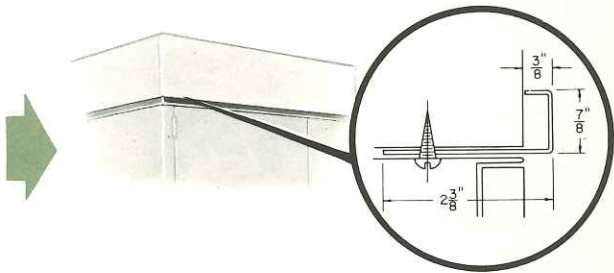
TOP BRACKET

A tubular brace of steel which is bolted to the wall and then attached to the underside of the counter at a 55° angle. Used to support top and counters where storage units are not used and legs are not desired, angle clips used for support at wall. Code No. 6501.



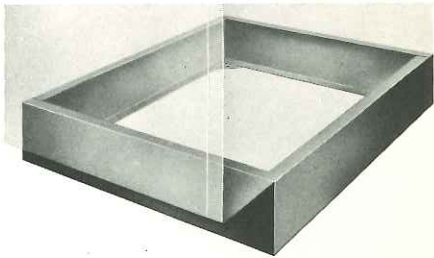
ENAMELED TRIM MOULDING

For use at top of wall units between units and furring or between units and ceiling. Similar trim is used around units recessed into wall.



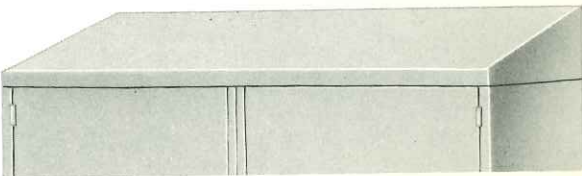
SUB BASE

Black metal bases of 18 gauge steel are provided when so required. Standard height is 4 inches. Normally sub base extends beneath more than one unit. Also available with adjustable bolts at corners.



SLOPING TOP

When furring is not used, a sloping dust cap may be installed above wall units or full height units. Sloping top has vertical face 1" high and then slopes back at an angle of 30 degrees. Made in lengths required up to 84". Code No. 6401.



FINISHING STRIPS AND PANELS

Finishing strips and panels may be placed between sides of unit and wall, between two units or at corners to compensate for unusual conditions. Standard and special sizes available to meet needs.



## COUNTERS AND SINK TOPS



An important advantage in specifying St. Charles equipment is that each top, no matter how large or small, is individually made to the size and shape required. The counter may be used as a top for one base unit only, may extend over a series of units, or may be used independently, with supporting legs or brackets. All tops are ordered separately from the base units and detailed at the factory to the exact measurements before entering production.

Special features, such as cutouts, notches, radius corners, and diagonals may be incorporated as needed in the construction of the top.

Tops and counters are available in the materials and types of construction shown on these pages.



### FORMICA AND VINYL ON STEEL CORE

These plastic materials are useful in many locations in a hospital and have the advantage of color. Due to the St. Charles method of construction, these tops are capable of years of service under hard usage. Formica is a hard material of laminate construction. Vinyl is a flexible and resilient material capable of great wear. Both can be had in many patterns and colors.

The selected material is bonded to a steel core of 17 gauge steel. The underside of the core is reinforced by a Z shaped brace, also of 17 gauge steel. Stainless steel trim, raised  $\frac{1}{8}$ " above the surface, is applied at all edges. In sink bowls, the opening cut in the core is reinforced by a 14 gauge strip around the opening. After the covering material is applied, a stainless steel trim is applied to the edge of the opening. The bowl is attached by a heavy clamp which is bolted to the reinforcing strip. The joint is sealed with calking compound, making an effective, water-tight installation.

### STAINLESS STEEL

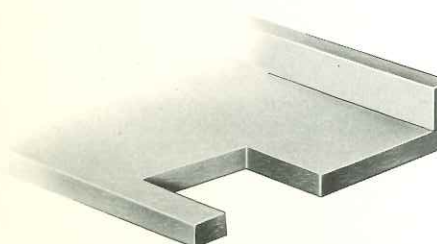
St. Charles stainless steel tops and counters are made of 16 gauge stainless steel. The entire top, from front to back, including the front flange, deck surface, and splasher is formed of one sheet of metal. The top is reinforced underneath by 3 U-type structural channels of 16 gauge steel. Channels extend full length. All raised edges are die-drawn without seams or crevices. The underside of all stainless steel tops are completely and effectively sound deadened.

In sink tops, the bowl is welded to the drainboard making an integral unit. An anti-splash rim is formed around the entire edge of the bowl.

NOTE (Wood Strip At Front Is To Facilitate Fastening)

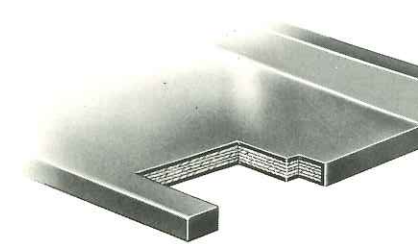


### ALBERENE STONE



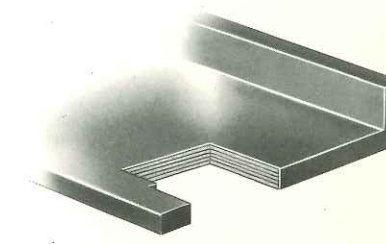
This material is particularly desirable in laboratory tables and sinks or wherever complete resistance to acids and fumes is desired. This top is made of  $1\frac{1}{4}$ " thick regular laboratory grade Alberene stone. All joints are made with litharge and glycerine reinforced with brass splines. The bowls are installed in the counter by means of the support shown on page 25.

### RADIUS EDGED FORMICA



This is a self-edged Formica top formed by bonding Formica to a core of exterior grade plywood. Edges are rounded and the underside is sealed with a sheet of unfinished Formica. In this construction, the counter and back splasher are formed of one sheet of Formica with a  $\frac{3}{4}$ " radius at the juncture of back and counter. Black Formica only.

### BARWELD AND BARCRAFT TOPS



Barweld tops are  $1\frac{1}{4}$ " thick resulting from the lamination of five plies of tempered pressed wood bound together with water-proof resin mastic under pressure. Edges are rounded. Black acid-resistant surfacing is applied to all exposed areas, thereby creating a durable, dense and hard working surface.

Barcraft tops are similar except that a plywood sub top replaces the three center plies of tempered pressed wood.



SERVICE FITTINGS

St. Charles service fittings are of high quality, especially designed to meet the requirements of hospital use. They are made of a non-ferrous alloy of great hardness and density, thus capable of withstanding constant wear. Finish is polished chrome.

Water service fittings have renewable unit parts and water saver renewable units. Wrist, elbow, or knee controls available where desired. Spouts may be fitted with serrated nozzles.



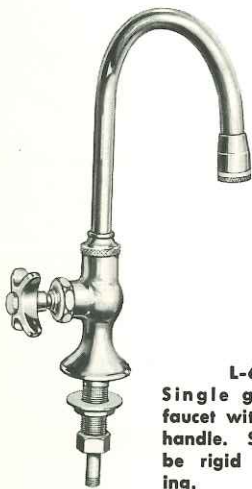
**L-552**  
Double hot and cold gooseneck faucet with four-arm handles.



Wrist blade handle available on any combination faucet.



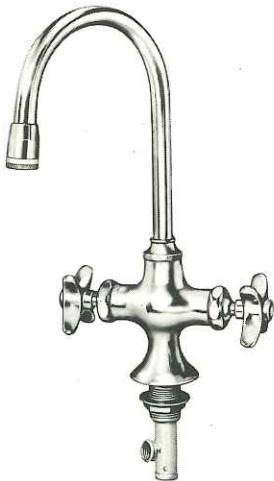
**L-551**  
Hot and cold water mixing faucet with four-arm handles. Gooseneck spout. May be rigid or swinging.



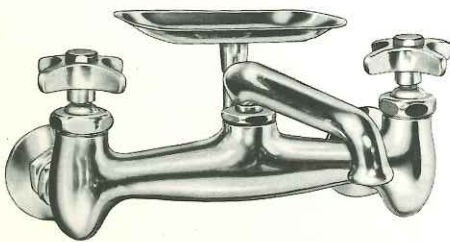
**L-631**  
Single gooseneck faucet with four-arm handle. Spout may be rigid or swinging.



**L-2731**  
Single faucet with gooseneck spout and four-arm handle.



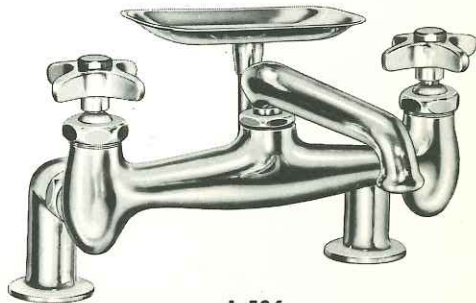
**L-431**  
Hot and cold faucet with four-arm handles. Gooseneck spout may be rigid or swinging.



**L-510**  
Backsplash mixing faucet with swing spout and soap dish, four-arm handles.



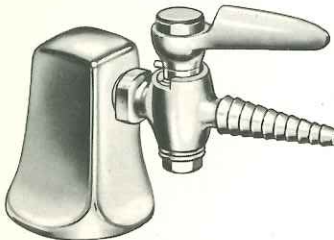
**L-410**  
Ledge mixing faucet with swing spout and four-arm handles.



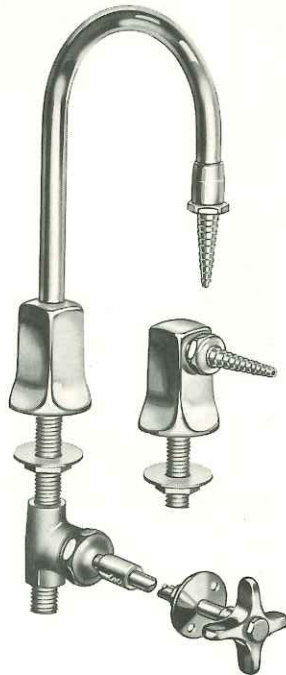
**L-536**  
Ledge mixing faucet with swing spout and soap dish. Four-arm handle.



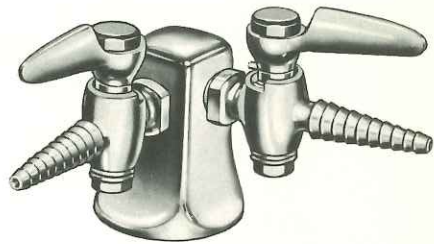
**L-2900**  
Gas, air, or vacuum hose cock with button index and 10 serration hose nozzle.



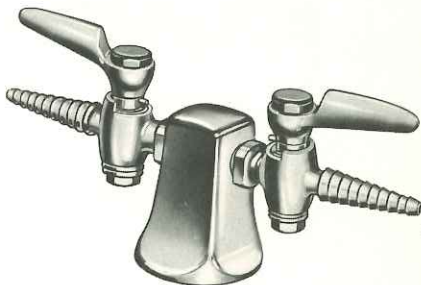
**L-131**  
Single gas, air, or vacuum hose cock with button index and 10 serration hose nozzle mounted in base.



**L-2886 L-2887**  
Remote control handle and valve. May be used for gas, air, or vacuum cock or gooseneck spout.



**L-132 A**  
Two-way gas, air, or vacuum hose cock with button index, mounted in base.



**L-132 S**  
Two-way gas, air, or vacuum hose cock with button index mounted in base.

Electrical fittings are of modern design with smooth lines for ease of cleaning and maintenance. Available with single or double face. Available in metallic gray enamel or polished chrome.



**E-2300**  
Double three wire standard flush receptacle box.

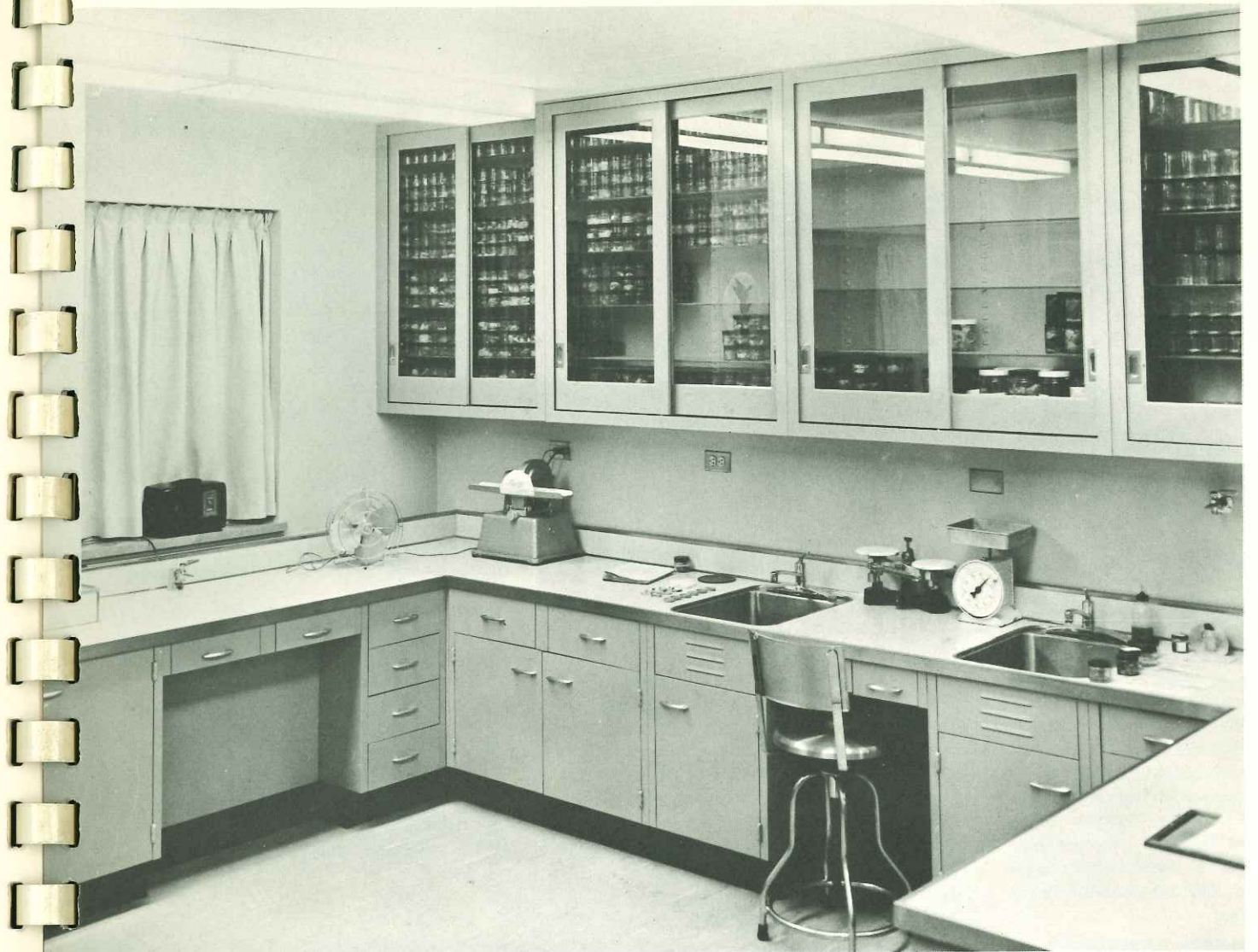


**E-300 series**  
Double three wire standard pedestal receptacle box.

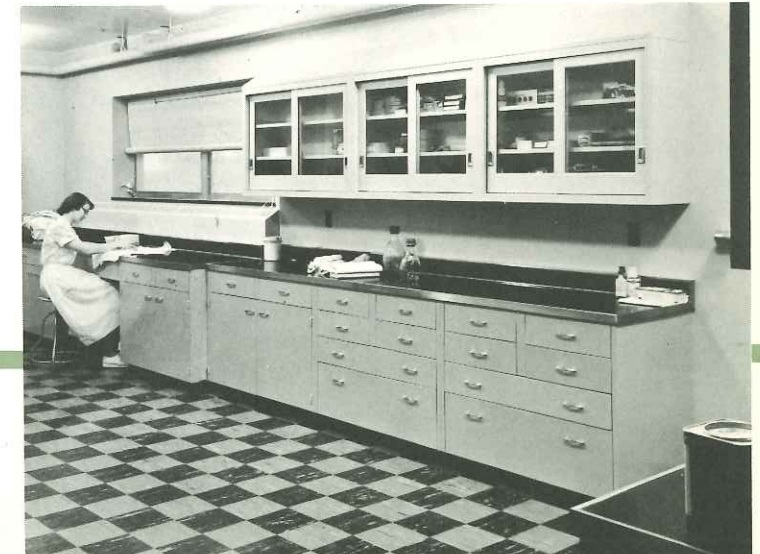
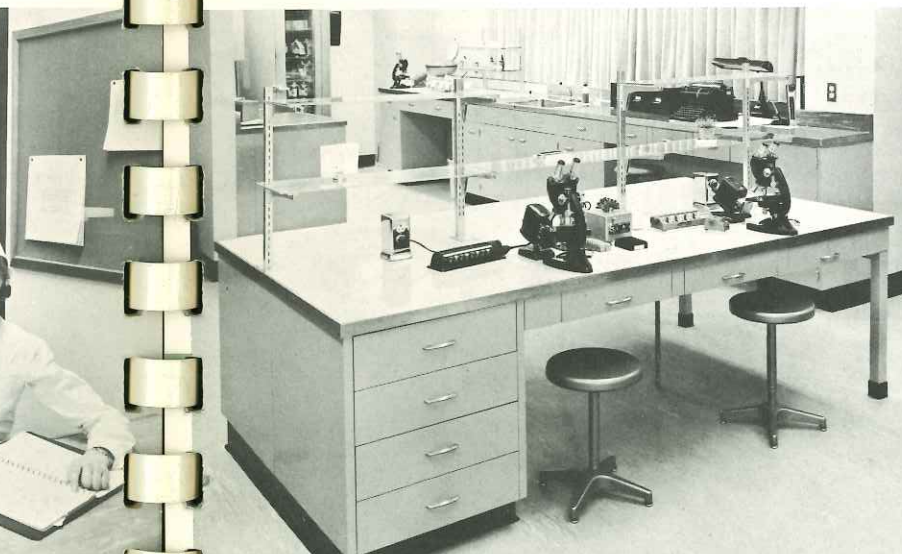
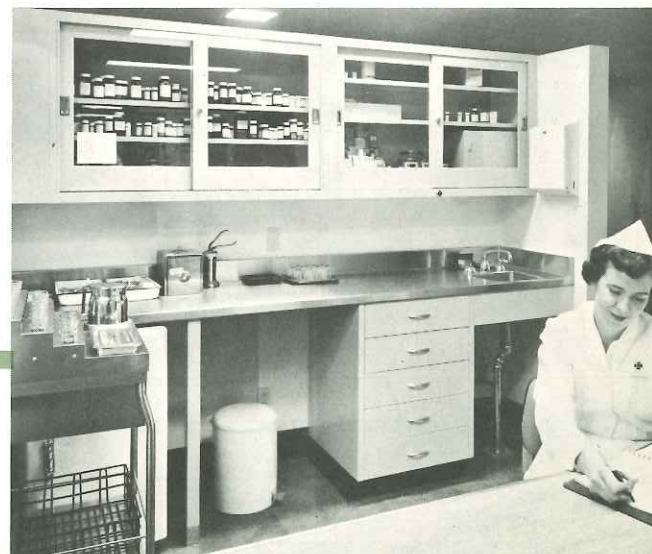


**E-500**  
Duplex two gang pedestal receptacle box.



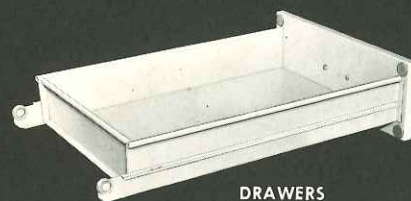


TYPICAL *St. Charles* INSTALLATIONS



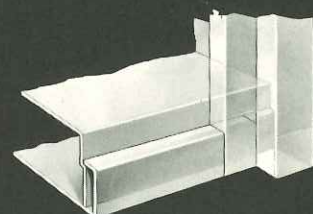


## CONSTRUCTION FEATURES



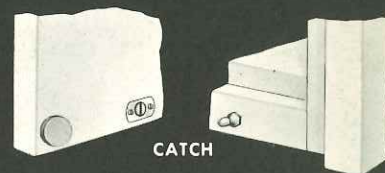
DRAWERS

Sides and bottom are formed of one sheet of steel with flanges at the front extending outward from sides and downward from bottom. Drawer fronts are made the same as door fronts. Drawer body is welded to the liner through flanges on sides and bottom. Back is spot-welded to sides and bottom through flanges projecting to the rear, leaving inside of the drawer free from flanges or sharp edges. Tops of the sides are rolled to eliminate sharp edges.



WALL UNIT BOTTOM

Bottom bends upward on a line with the rabbet on the inside edge of the stiles for a distance of 1". It then bends backward as far as the thickness of the rabbets. A false bottom is inserted. The overhanging top, the rabbeted stiles and the edge of the bottom make a continuous recessed frame into which the door or drawer fits, making a tight, dust-retarding closure.



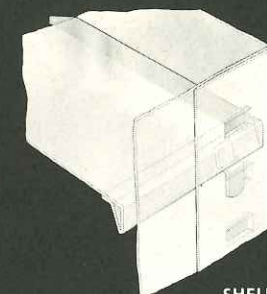
CATCH

Catch housing in door contains two vertically mounted, full floating springs, alloy coated to reduce friction. Strike, attached to unit, is of cadmium plated, hardened steel. Springs expand with roller action on engaging strike, thus virtually eliminating friction wear on strike. A 1" round rubber bumper is inserted in door at top and bottom where it comes in contact with unit.



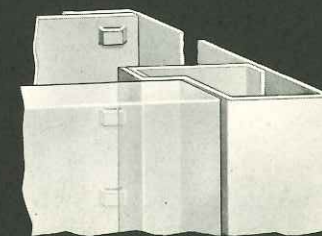
GLASS DOORS

Double panel construction as in solid doors with space cut out for double strength glass and 14 gauge channel reinforcement between two panels. Inside edge of front panel beveled; also stainless steel moulding strip which is fastened between reinforcement channel and liner and holds glass in place.



SHELF

Adjustable and removable. Front and rear edges are formed into a 30° triangular truss with extended lip for sound-deadening. Ends fold down. Shelf rests in cadmium plated clips which are placed at desired points. Supports for glass shelves to have rubber bumpers.



STILE

Front edge of side is formed by four right angle bends to make stile at each side of unit. Visible surface of stile formed by first bend inward is 1 1/8" wide. It then bends back, in and again back to form a rabbet into which the door or drawer closes. U-shaped shelf support channel is welded to this stile on the inside, making a fully enclosed channel and giving added rigidity. Front shelf adjustment louvers are in this channel.

Roller type drawer slide, positive in operation. Drawer may be fully opened, yet cannot accidentally fall out. Drawer slide is 16 Ga. Z-shaped member; case slide is formed of 16 Ga. terneplate. One bearing is at front of case slide; other bearing at rear of drawer slide.

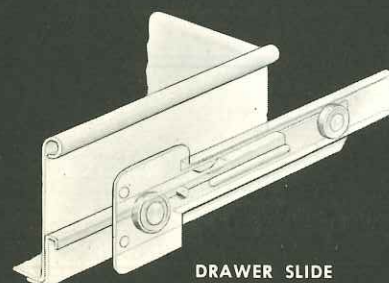
Track, (14 gauge steel) is located in top of unit to eliminate hard to clean channel at bottom. Hangers are of cadmium plated steel with tandem rollers of durable, quiet, self-lubricating nylon. Door cannot bind or leave track. Nylon guide rollers adjustable at bottom.

The sides of unit are made with the same type of stile as in upper units. Bottom has 1" flange at sides and back through which it is welded to sides and back of unit. Front flange is bent down and back to form bottom rail. U-shaped channel forms top rail. Cross rail inserted six inches from top. Door construction as in upper units except that catch is at top.

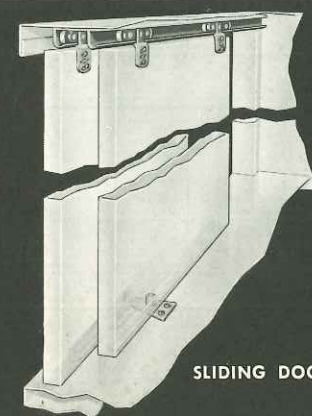
A five jointed institutional brass hinge 2" long, centered 3" above bottom and below top of door. Additional hinge in center of doors over 36 inches high. Made with smooth rounded joints for easy cleaning. When door is closed, only the joint is exposed. Hinge pin locked in place.

Two full-sized panels are telescoped, one inside the other and welded together, to form a door 5/8" thick with flush surface on both sides. Handle reinforcement is welded to liner between the front and the liner so that when handles are mounted, they do not cause the door to buckle or cave. Doors are sound deadened. Handle is an exclusive design, easy to grasp and to clean.

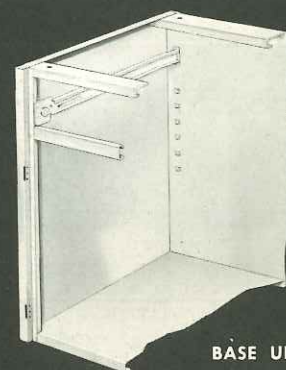
Top of unit extends to the front edge and is tightly folded back as far as the thickness of the door. It then bends downward, continuing the rabbet formed in the stile. Thus, the top overhangs the door when closed, making a tight closure and resisting entrance of dust.



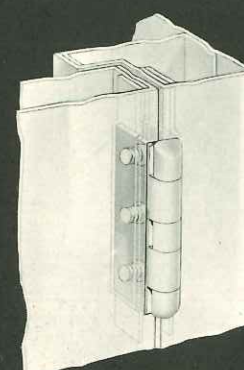
DRAWER SLIDE



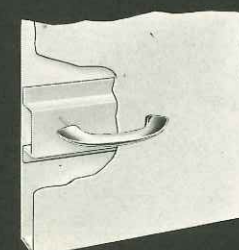
SLIDING DOOR



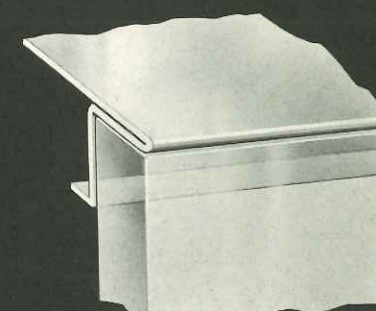
BASE UNIT



HINGE



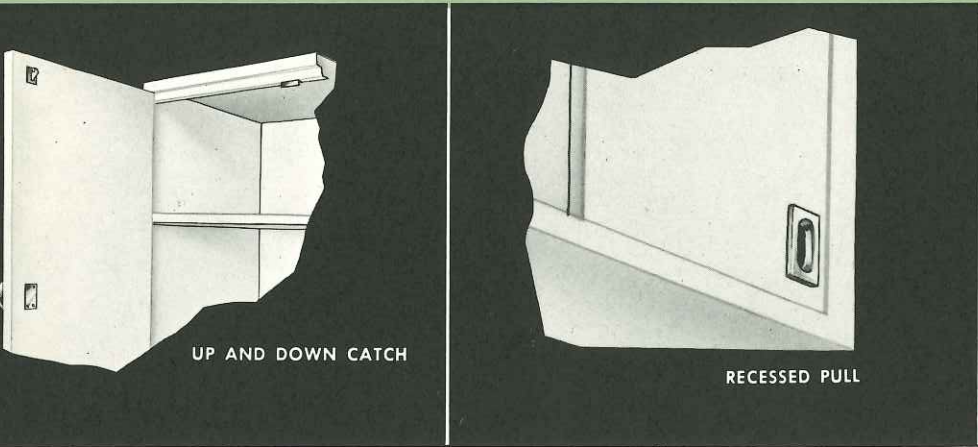
DOOR AND HANDLE



WALL UNIT TOP



# CONSTRUCTION FEATURES (CONT.) AND DIMENSIONAL DETAILS



This is available as an alternate to the standard double spring catch. It consists of two self-closing, spring actuated bolts, with catches at upper and lower edge of door. This is operated by a satin chrome turn knob at the center of the door which releases catches. Catches engage automatically when closing.

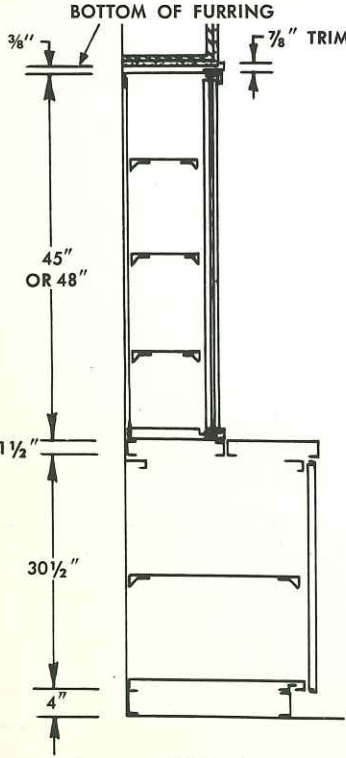
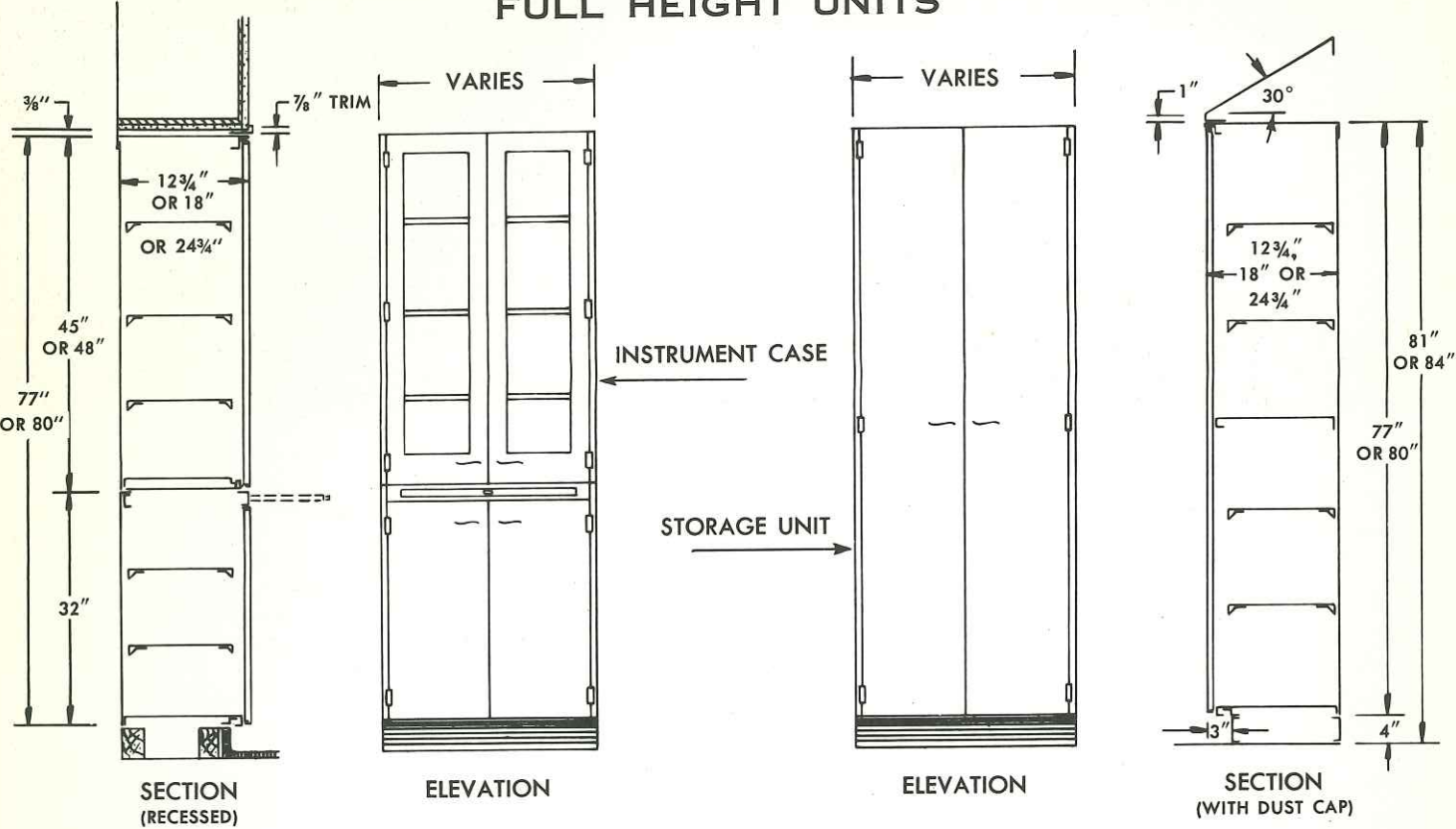
Sliding doors have recessed pull of solid brass, nickel plated. Finger opening is 1" x 1 1/2". Pulls are recessed and have stop to prevent inside door from being concealed. Finish is satin chrome.



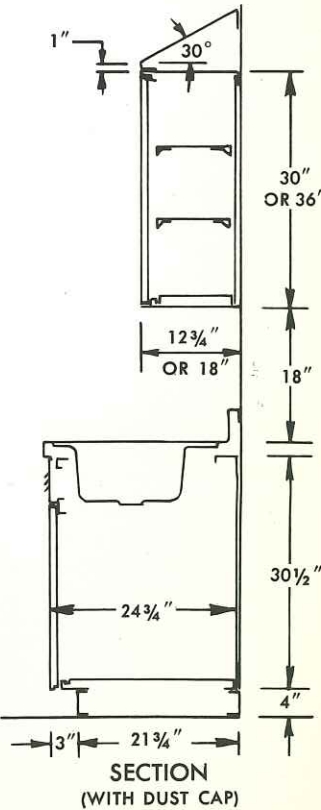
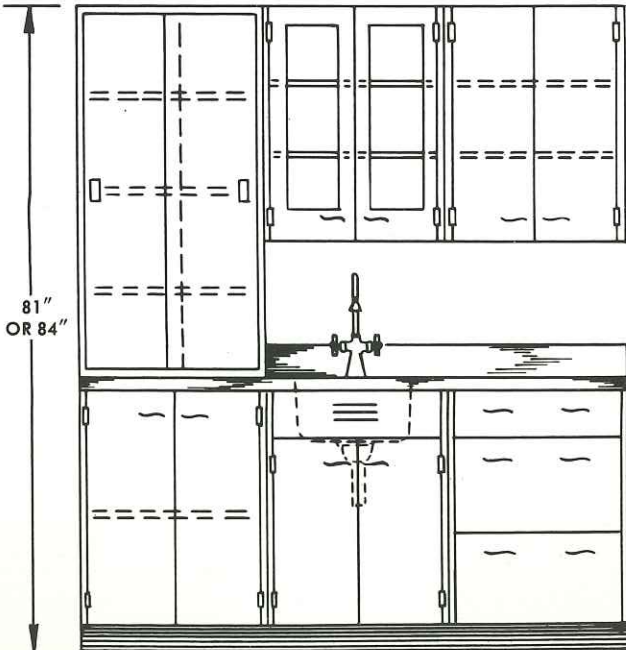
Units are first sanded and buffed smooth to remove weld marks and rough edges. Next they go through a six-stage Bonderizing process as described on page 6. A prime coat of synthetic enamel is then sprayed on and baked. This is sanded smooth, and a finish coat of high quality enamel is sprayed on and baked. The result is a finish which is sufficiently hard to resist abrasion, yet very tough and flexible as well as smooth and glossy in appearance. White, or in colors as selected.

# DIMENSIONAL DETAILS (CONT.) INSTALLATION INFORMATION

## FULL HEIGHT UNITS



## TYPICAL WALL AND BASE UNITS

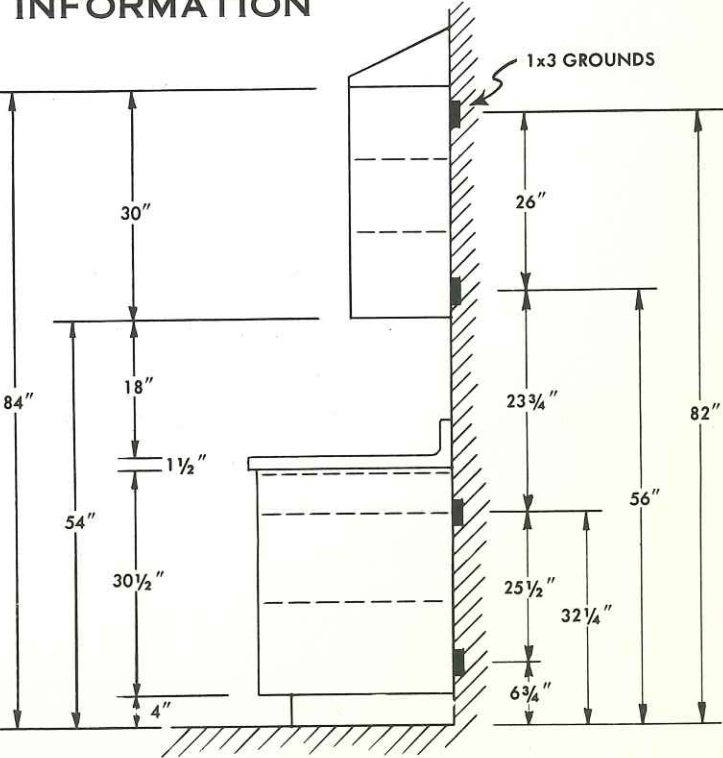


## INSTALLATION INFORMATION

The installation of St. Charles units is made economically because each unit is complete and does not require end finishing panels or cover strips. Units may be mounted free-standing or may be recessed by using trim moulding.

Before beginning the installation of cabinets: plumbing, electrical and other related work should be roughed-in as shown on the St. Charles shop drawings. Units may be secured to walls by using toggle or expansion bolts or where desired, ground strips for fastening screws may be located as shown on the adjacent sketch. It is important that all cabinets be installed level and plumb.

For the most satisfactory installation, we recommend that the equipment be installed under the supervision of St. Charles trained engineers.





ST. CHARLES HOSPITAL CASEWORK

1. GENERAL CONDITIONS:  
Provisions set forth in "General Conditions" of the specifications shall be considered part of this section and contractor shall be responsible for and governed by all requirements thereunder.
2. WORK INCLUDED:  
This section of the specifications shall include all materials, labor and equipment necessary to furnish, deliver and install the metal casework, cabinets, shelving, counters, and sinks as specified and indicated on the drawings. Faucets, strainers, and electrical outlets attached directly to the casework shall be furnished as part of this equipment and installed under other sections.
3. WORK NOT INCLUDED:  
All heating and ventilating work in connection with items in this section. Plumbing and electrical service connections including traps and stops in supply piping will be made by others.
4. DRAWINGS:  
Prior to fabrication, the contractor shall prepare and submit to the architect for approval, shop drawings covering all work herein specified. These drawings shall show size and arrangement of all equipment and relation to adjacent work and material.
5. GUARANTEE:  
This contractor shall guarantee all materials and workmanship covered by this specification for a period of one year from date of installation.
6. STANDARDS:  
All metal casework, cabinets, shelving, sinks, and counters shall be equal to standards, quality of materials, construction, workmanship, and finish for work of similar character by St. Charles Manufacturing Co., St. Charles, Illinois. Metal casework of like material, equal quality, and construction by recognized and reputable hospital casework manufacturers shall be considered. Cases must be of the general design and dimension specified.  
Contractor must show evidence of having manufactured built-in hospital cabinets and casework for the past five years and shall submit names of at least five users of his equipment upon request. A representative sample of items designated shall be furnished if requested, for approval of the architect. Sample shall be clearly marked with contractor's name, name of manufacturer, and the use for which it is intended.
7. MATERIAL:  
Casework and shelving shall be fabricated of mild, cold rolled, annealed furniture steel. All gauges of metal referred to herein are U. S. Standard.
8. CONSTRUCTION:  
(a) Cases. Fronts, sides, and bottoms of all units and backs of full height units shall be made of #18 gauge steel. Top rails and cross rails of base units shall be #16 gauge. Backs of wall and base units and tops of all units shall be made of #20 gauge steel. Sides of units shall be formed to make rabbeted stile 1 1/8" wide. Stiles shall be closed by welded channel which shall contain front shelf adjustment louvers. Exposed welded joints shall be ground and finished smooth.  
(b) Doors and Drawers. Doors and drawers shall be of double panel construction, 5/8" thick and shall be sound deadened. The front panel shall be #18 gauge steel; the liner #20 gauge steel. Handle reinforcement between panels shall be welded to inner panel. Doors and drawers shall have soft rubber bumper for quiet closing.  
Glazed doors shall have frame of double panel construction as in solid doors. Inside edge of cutout in front panel shall be beveled. Glass shall be set in rubber glazing channel between panels and be held in place by removable stainless steel retaining strip.  
Sliding doors shall operate in a #14 gauge track assembly at top of unit with a guide at bottom. Sliding doors shall have recessed door pulls with stops to prevent inside pull from being concealed. Top rollers and bottom guide shall be nylon.  
Drawer bodies shall be formed of one sheet of #20 gauge steel and be welded to front through flanges of sides and bottom and to back through flanges at rear. All flanges shall extend outward or downward leaving inside of drawer free from flanges or sharp edges. Top of sides and back shall be rolled to eliminate sharp edges.  
Drawer slide shall be roller type, positive in action, permitting drawer to be fully opened yet preventing drawer from accidental removal. Drawer slide shall be #16 gauge Z-shaped member with roller at rear; case slide shall be a formed piece of #16 gauge terneplate with roller at front.

- (c) Shelves. Shelves shall be #18 gauge. Shelf edges shall be formed with a 3/8" face and turned back up at a 30 degree angle and edge of flange shall make firm contact with underside of shelf for sound deadening. All shelves in cabinets shall be adjustable on 1 1/2" centers and supported by cadmium plated clips placed in embossed louvers.
- (d) Hardware. Catch housing in door shall have two vertically mounted, full floating springs, alloy coated to reduce friction. Strikes of hardened steel shall be attached to unit. Where up and down bolts are called for, they shall be spring actuated type with knobs finished to match other hardware.  
Hinges shall be brass, five jointed institutional type, 2" long, centered 3" above bottom and below top of door. Doors over 36" high shall have an additional hinge in center. Hinges shall be finished to match casework with smooth rounded joints for easy cleaning. When door is closed, only the joint shall be exposed. Hinge pin shall be locked in place.  
Door and drawer pull shall be of solid cast zinc alloy with satin chrome finish. Doors and drawer fronts shall have a handle reinforcement between the front and the liner so that when handles are mounted, they do not cause the door to buckle or cave.  
Locks, where shown, shall be of the pin tumbler paracentric key lock type. Locks shall be keyed and master keyed as directed.
- (e) Leg Footings. To be of a chemical resistant black moulded plastic material with chemical rubber base. Footing shall fit over the outside of legs so they can be raised to provide access to the adjustment bolt with anchor pin in bottom of leg.
- (f) Scribe Trim. Provide scribe pieces and strips, fillers, trim, etc. for metal casework throughout the job as conditions require for recessed items and for proper fitting of work. Such trim shall be of same material and finish as adjoining casework.
- (g) Dust Tops. Where required, dust caps with 1" high face and 30 degree angle slope to wall are to be furnished on tall and wall type cabinets.

9. FINISH:  
After units have been completely welded together, spot weld marks on exposed surfaces shall be polished off; the units are then chemically cleaned to remove all dirt, grease and other foreign matter. Following a six stage wash and phosphate coating spray process, a prime coat of a film thickness of 1 mil plus or minus 10 per cent shall be sprayed on and baked in a modern oven. After the prime coat is sanded smooth, the finish coat of equal film thickness shall be sprayed on and baked, resulting in a finish having a film thickness of 2 mils plus or minus 10 per cent. Colors as selected.  
The finish shall be resistant to corrosion and abrasion as outlined below:  
Bending: A .3 inch deep draw without cracking or breaking down.  
Impact: Impact of 40 inch-pounds by a rounded steel instrument 1/2" in diameter without flaking or peeling.  
Humidity: Exposure of 500 hours at 100° F. and 100% relative humidity without corrosion.  
Hardness: Impact of 2000 grams of Ottawa sand dropped at an angle of 45° through a tube one meter long and with an opening of 7 mm without erosion.  
Color Retention: Six months' exposure in diffused light, both Florida sun light and northern light without appreciable discoloration.  
Abrasion: Subjected to 70,000 cycles of a weighted (1000 gram) ground glass dish sliding back and forth without wearing.  
Resistance: through the finish coat.  
Reagents Resistance: The finish shall withstand 15 minutes exposure to the following reagents dripping onto the surface at approximately one drop per second (50 ml. shall drop in the 15 minute period). The drops shall fall 2 inches and the surface of the finish shall be inclined at a 45° angle. No more than a slight color change and loss of gloss shall be allowed on this test. A fresh portion of the finish shall be used in testing with each of the following reagents.
- |                          |     |                                     |     |
|--------------------------|-----|-------------------------------------|-----|
| Phosphoric Acid .....    | 10% | Ethyl Acetate                       |     |
| Sulphuric Acid .....     | 10% | Chloroform                          |     |
| Nitric Acid .....        | 5%  | Carbon Tetrachloride                |     |
| Acetic Acid, glacial     |     | Xylol                               |     |
| Sodium Hydroxide .....   | 5%  | Formaldehyde .....                  | 37% |
| Ammonium Hydroxide ..... | 5%  | Hydrochloric Acid .....             | 10% |
| Hydrogen Peroxide .....  | 5%  | Sodium Chloride Solution, Saturated |     |
| Ethyl Alcohol            |     | Sodium Hypochlorite .....           | 5%  |
| Methyl Alcohol           |     | Gasoline                            |     |
| Acetone                  |     | Naphtha                             |     |
| Ethyl Ether              |     | Mineral Oil                         |     |

10. SUB BASE:  
Where required, base cabinets to be mounted on welded channel formed steel bases of #18 gauge mild steel which are to be installed level and plumb to serve as a firm foundation for cabinets. Sub bases may be of such length as to be used under



more than one cabinet (up to 84" in length) and to be recessed 3" to provide toe space. Color to be black unless otherwise specified.

11. TOPS:

Counter and sink tops to be of one piece construction wherever possible within limits determined by size and shape of room.  
(a) Formica and Vinyl. Sink and counter tops shall be fabricated as follows: core of top shall be #17 gauge steel with flanges at front and back. Core shall be reinforced with Z-shaped braces of #17 gauge steel. Splasher, where indicated, shall be of #17 gauge steel with flanges at top and bottom. Formica or Vinyl shall be bonded to the core of top and/or splasher. Splasher shall be bolted to top through rear flange and stainless steel cove moulding applied at the joint. Stainless steel trim 1½" wide shall be applied at all exposed edges and shall be raised 1/16" above surface.

Around bowl opening, #14 gauge reinforcing strip shall be welded to bottom. To edge of bowl opening shall be applied stainless steel channel moulding with an extension base which shall project under the reinforcing strip. Bowl shall be bolted to reinforcing strip through clamp and joint and sealed with calking compound.

(b) Stainless steel. Sink and counter tops shall be fabricated of #16 U.S. standard gauge Type No. 302 18-8 solid stainless steel formed down and back making a 1½" high face on all exposed edges. Drainboards and cabinet tops to be reinforced with #16 U. S. Standard gauge steel U-type structural channels extending the full length of the top. Drainboards to be two-way pitched to the bowl to provide drainage without channeling or grooving. Drainboards, flanges and splashers to be integral, being formed of one sheet of metal. Raised edge surrounding unit to be seamless die formed at front, ends and rear of unit.

Sink bowl to be fabricated of #18 U. S. Standard gauge Type 302 18-8 solid stainless steel seamless electrically welded to drainboard. All joints to be electrically welded, ground and polished to a satin finish. Entire unit to be thoroughly sound deadened on the undersurface. All tops to have wood strips to facilitate fastening to cabinets.

(c) Soapstone. Where specified, shall be Alberene stone of laboratory grade 1¼" thick. It shall be homogeneous except for possible veining and shall be finely granular in all directions.

(d) Barweld tops. Black acid resisting tops shall be constructed of five plys of a tempered pressed wood bonded together under pressure with waterproof resin mastic, resulting in a finished thickness of 1¼". All edges shall be rounded to ⅛" radius. All exposed surfaces shall be treated to produce a black acid and solvent resistant finish, providing a hard, durable and dense working surface.

Barcraft tops shall be constructed in a similar manner, except that the interior three plys of tempered pressed wood shall be replaced with a high grade plywood core; also resulting in a finished thickness of 1¼". Surface treatment shall be the same as for Barweld tops.

12. SERVICE FACILITIES:

All utility outlets including combination and single faucets, gas, air or vacuum cocks where required and/or specified in connection with case work shall be included in this contract. Utility outlets shall be cast brass and heavily chrome plated. All cocks shall be of the ground key type.

(a) Faucets and Strainers. All sinks shall be furnished with faucets for splashback or deck type mounting where specified. Stainless steel sinks shall include stainless steel strainer and tailpiece. Stone sinks shall include lead tailpiece with strainer.

(b) Index. Colored plastic index discs shall be provided for all services. The following standard colors shall be used:

- Red .....Hot Water
- Green .....Cold Water
- Orange .....Air
- Yellow .....Vacuum
- Blue .....Gas

(c) Electrical outlets. All electrical outlets required to be mounted on cabinets, counters, or reagent shelves shall be included in this contract. Finish of fixtures to be polished chrome. Capacity, 15 ampere, 125 volt, or 10 ampere, 250 volt.

13. TABLES:

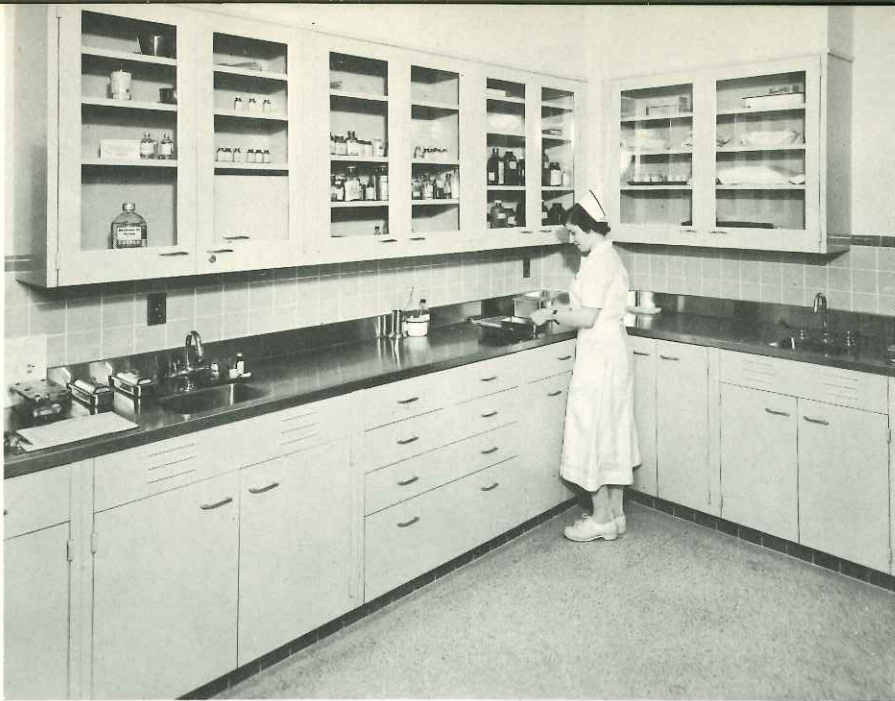
Table frame unit bodies shall be constructed to permit bolting to adjoining units where located between base cabinets. Leg units shall be provided where required and shall be of seamless square tubing with adjustment bolt at bottom.

Table frame units with drawer shall be constructed to allow a minimum of 24" knee space when mounted at 30" height.

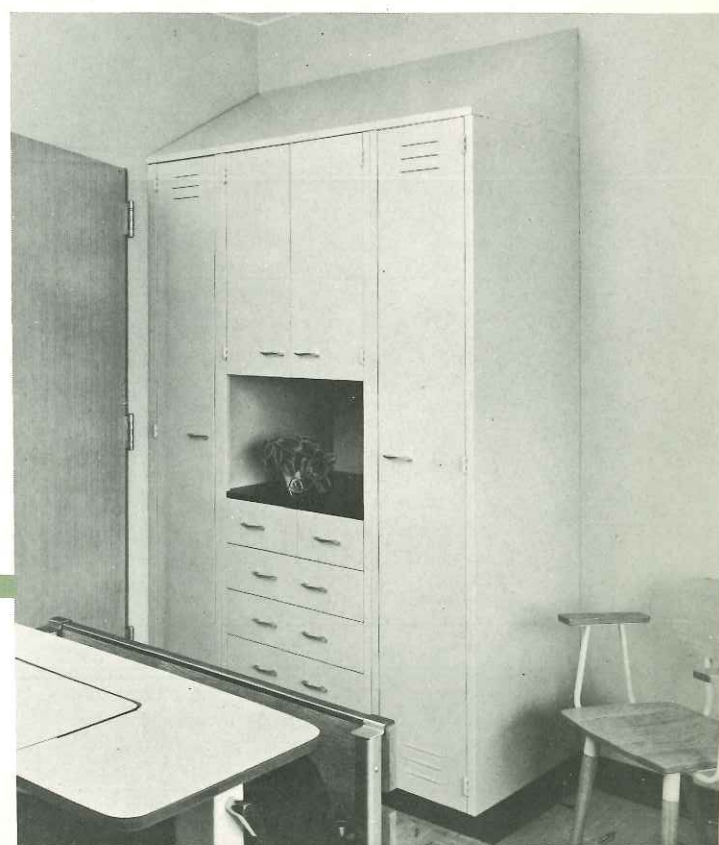
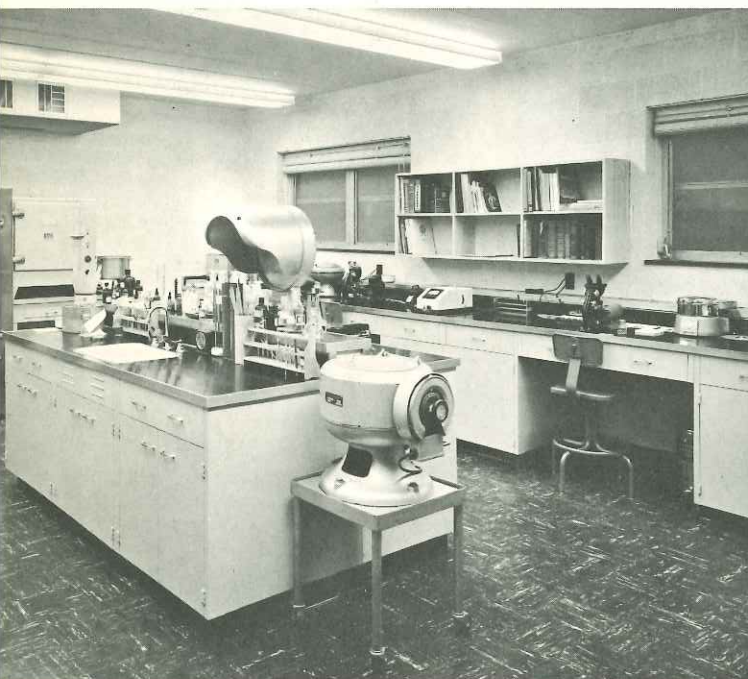
14. INSTALLATION:

All items shall be neatly, securely, substantially and completely installed in a workmanlike manner by this contractor to the complete satisfaction of the architect.

Installation shall be under the direct supervision of a factory representative of the manufacturer of the equipment.













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*St. Charles, Illinois*

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Thank you for your interest in St. Charles Hospital Casework. We are enclosing our equipment catalog and hope you will find the product information it contains helpful.

On page three is an index to guide you in finding product sections and details about the construction of St. Charles Casework. All basic units are illustrated and standard sizes charted for your convenience in detailing equipment layouts. Please keep in mind that all St. Charles equipment is made to order. An important advantage of our service is being able to meet individual job requirements.

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Yours very truly,

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Vice President in Charge of  
Hospital Casework Division

Robert J. Rodgers  
mmc

Encl.